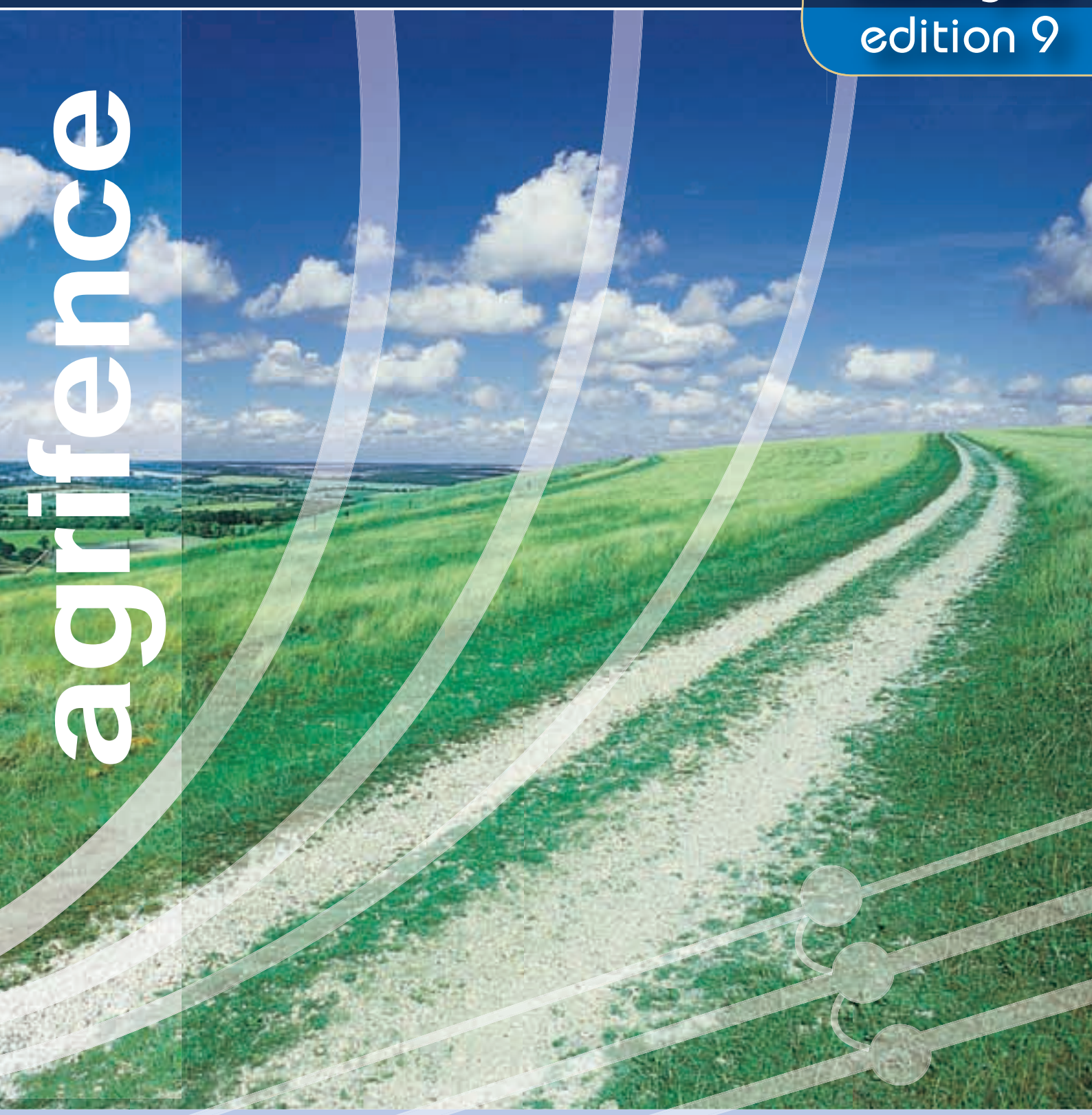
Protect & contain... Safely!

catalogue
edition 9

agrifence



Electric Fencing • Ironmongery • Torches & Lanterns

agrifence uk

the company

Agrifence was originally formed as a division of a family run company that has been servicing the equine and agricultural industry since 1975. Over time and through it's extensive network of contacts 'on the ground', it was seen that there was a need for reliable electric fence systems that could cope with the demands of the ever changing European climatic conditions, and also operate efficiently regardless of the conditions it was installed in, (short runs, long runs, dry ground, marshy ground etc)... in other words, a system ideal for use in the UK!

In 1995 Agrifence began to address these needs and since then has continued to grow and establish itself at the forefront of developments in electric fence systems and designs for UK and Europe, working particularly in partnership with LACME.

LACME have been manufacturing fencers since 1956 and are well established as the foremost supplier of electric fence systems throughout Europe.

We are confident that this catalogue will contain details for all that is needed to set up an effective electric fence whatever the requirement may be from simple strip grazing lines to full farm installations and even systems for zoos & wildlife parks.

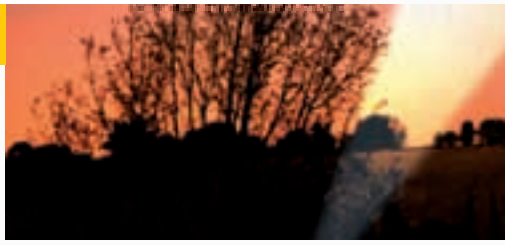
Throughout this catalogue, we have tried to outline a list of choices for the components comprising your system. Certain items of information are rather "technical" and have been deliberately included to demonstrate the high-performance capabilities and excellent value for money represented by our products.

We at Agrifence are a team of enthusiasts ever at your service in the continual quest to improve our products.

agrifence

protect & contain...
...safely!

The LACME manufacturing plant



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the electric fence is a system

When it is well-installed, the electric fence is the modern solution that best solves fencing problems regarding the rearing of livestock, the protection of livestock against dangerous animals and the containment of domestic animals.
Harmless, more practical and economical than barbed wire, electrical fencing is just as safe and durable as its non-electrified counterpart. To achieve maximum effectiveness however, it is necessary to bear in mind that it is a complete "system" and that particular attention must be paid to certain key points during installation.
These points are illustrated clearly in the "electric pulse circulation diagram" illustrated on these two pages.

the energizers

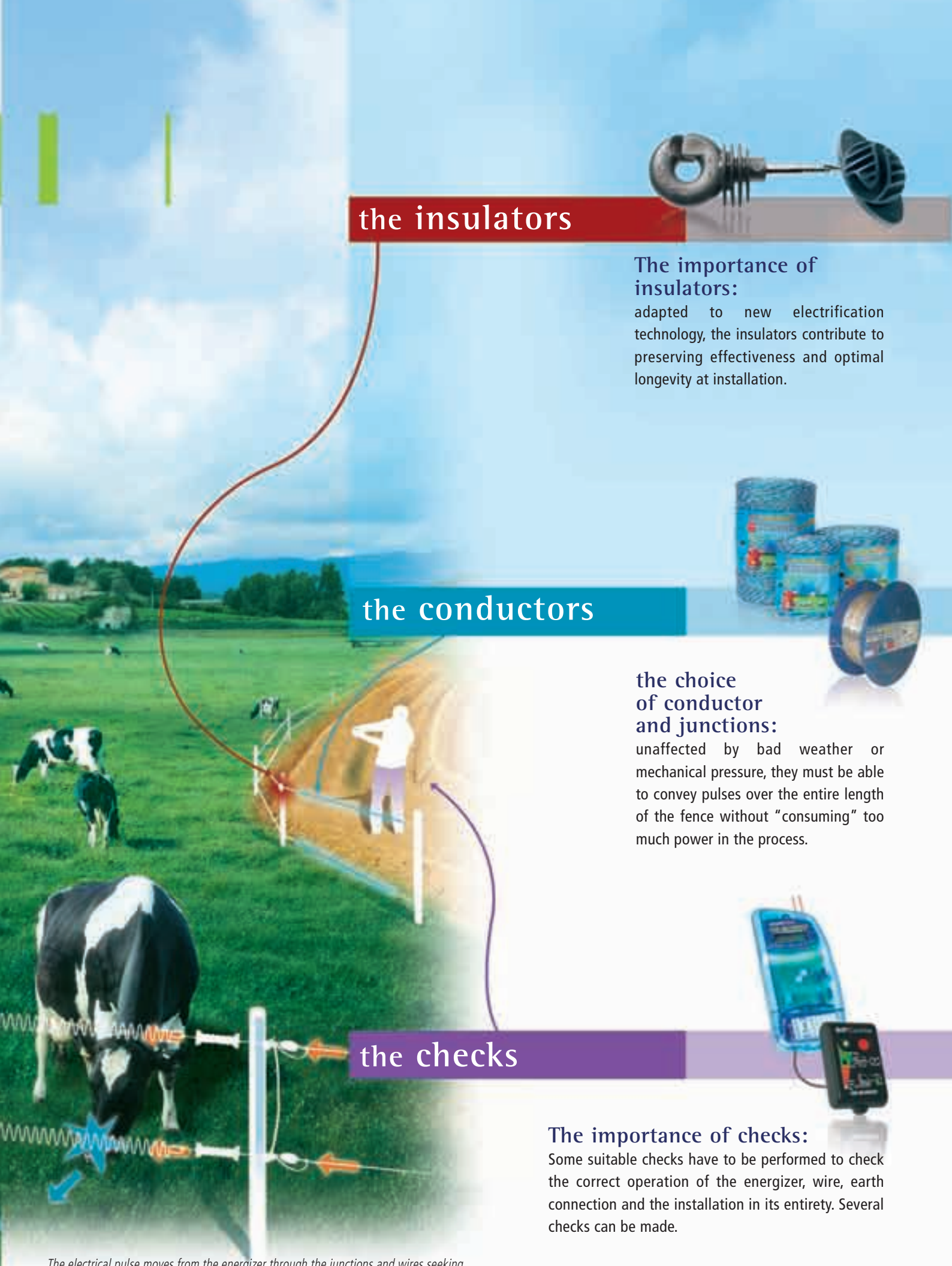
The energizer you choose:

must be effective and deliver pulses of electrical energy that are suitable to the animals to be contained, the perimeter to fence and the conditions of the land.

the earth connections

The importance of a good earth connection:

Often the only path for the return pulse, the quality of the connection may vary greatly over time depending on the nature of the terrain and the climatic conditions. It must only "consume" a reasonable fraction of energy available.



the insulators

The importance of insulators:

adapted to new electrification technology, the insulators contribute to preserving effectiveness and optimal longevity at installation.

the conductors

the choice of conductor and junctions:

unaffected by bad weather or mechanical pressure, they must be able to convey pulses over the entire length of the fence without "consuming" too much power in the process.

the checks

The importance of checks:

Some suitable checks have to be performed to check the correct operation of the energizer, wire, earth connection and the installation in its entirety. Several checks can be made.

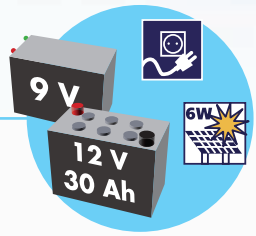
The electrical pulse moves from the energizer through the junctions and wires seeking any return path available towards the ground (animal, grass, etc.). When the animal touches the fences, the pulse 'available' at this point runs through it and completes its return.

The choice of energizer

Irrespective of its mode of power supply, an effective energizer must release electric pulses suited to the terrain, the perimeter to be fenced and the types of animals present in order to maintain a minimum protection threshold throughout the year for any given point in the enclosure.

Power supply mode

230 V mains energizers are recommended whenever the mains is available. However, with the increasingly widespread use of solar panels, battery energizers are once again becoming a very advantageous alternative. Any further power needed can be supplied by an energizer that functions on a large 12 V wet cell battery. For short fences or mobile applications, the facility offered by energizers on 9 V dry cell batteries is perhaps to be preferred.



Terrain conditions

LACME's high tolerance low impedance technology burns off vegetation that comes into contact with the fence from the first contact. If the fence sections that will be subject to extensive contact with vegetation are long, the energizer must be proportionally powerful.

Perimeter to be fenced

The electrical resistance of wires varies from one type of conductors to the next. Thus, the standard question "How many kilometers?" can only receive an answer based on the given "Energizer - Conducting wire" combination. With most conductive wires, an energizer of a few hundred millijoules is sufficient for enclosures from a few hundred meters to a few kilometers. An energizer offering a few Joules can electrify very large fences that may extend for several tens of kilometers.

Animals that are easy / difficult to contain

Certain animals may require larger power margins due to thick coats and/or hides that insulate them particularly well. This is for example the case with sheep, goats and wild animals when compared to cows, pigs or horses which are easier to contain.

In the following pages, the two groups of animals will be represented by the following logos:

Minimum containment thresholds

For an animal to receive a pulse that is sufficiently intense at a given point in the fence, this point must be subject to:

- not only enough voltage to ensure that the fur and hide are penetrated,
- but also enough power (in joules), so that the nervous system is sufficiently excited to produce a shock message in the brain.

According to certain scientific studies the minimum voltage thresholds necessary are 700 V for cattle and 2,000 V for sheep respectively. The minimum power threshold is less than 50 millijoules. From our experience, these very low minimum thresholds deserve a safety coefficient: by simplification, we recommend that in order to contain the majority of animals effectively all points of the enclosure must be maintained at above approximately 2,000 V and 100 millijoules.

■ one large network or two distinct networks?

In the exceptional case of a fence network that is too long and subject to extreme leakage as a result of vegetation, avoid using a more powerful single energizer, as in the absence of vegetation, the energizer may be set to supply an excessive pulse power that could present serious risks in certain very rare instances. It is better to restructure into two systems.

However the skilled stockbreeder concerned about safety should not be deterred. With a little methodology and some common sense he can manage his network effectively: Very often the lower conductor does not need to be so low, and the animal contained may take care of maintenance by grazing under the fence. Finally, if it is really necessary, two reasonably powered energizers allocated to two distinct halves of the network will cost less than an excessively powered device. In this case, never link the two enclosures electrically.

1 the energizers

Secur 2006 ALT

- Voltage peak: ..... **12,000 V**
- Maximum output power: ..... **6,000 mJ**
- Equivalent stored power: ..... 10,000 mJ
- Power into 500 Ohm: ..... ≤ 5,000 mJ
- Reduced capacity power: ..... 1,200 mJ

- Backlight digital display: 2 lines / 16 characters
- Flash control of the fence insulation by bar graph and accurate display of the percentage
- Intuitive test of the quality of the earth connection Total of fence / animal contacts
- Built-in audible alarm
- Transfer socket for the connection of a siren, flash, telephone transmitter, etc.
- Compatible with transponder / self-test
- Leakage detection indicator light
- Fence return indicator light
- Anti-cutoff device
- Reduced power outlet

Ref. **608.000**

A must-buy energizer!
High power smart mains energizer for extreme conditions: long fences, bushy terrain, especially stubborn animals. Thanks to LACME's most recent innovations, this energizer can be connected to up to 4 transponders to obtain a maximum monitoring level for protection and safety. Particularly convenient, the backlit digital display provides an instant and permanent visual check. In the event of serious problems, the device displays its diagnosis directly and recommends a solution to be adopted. Its various alarm possibilities provide instantaneous warnings. Its effectiveness is such that it is even capable of totalling up the number of contacts between the animal and the fence.

Dynamic bar graph
that instantly indicates the state of insulation of the fence. Extra large backlight display.

ON/Off switch
for the built-in alarm.

BIpulstronic® Technologie
Dual pulse technology

WARRANTY 3 year Energizer

Connector for "Transfer" socket
used to connect accessories, e.g. sirens, flashing lamps, etc.

Earth connection test or leakage detection
The left red indicator light comes on at the same time as the green central "on" button.

Fence return safety and anti-cutoff device
The right green indicator light comes on at the same time as the green central "on" indicator.

Reduced power terminal or fence return safety (anti-cutoff)

* Clos Stop not compatible with transponders

Secur 2006

- Voltage peak: **12,000V**
- Maximum output power: ..**6,000 mJ**
- Typical power stored: ..... 10,000 mJ
- Power into 500 Ohm: ...≤ 5,000 mJ
- Reduced capacity power: ....1,200 mJ

- Backlight digital display: 2 lines / 16 characters
- CFlash control of the fence insulation by bar graph and precise display of the percentage
- Automatic test of the quality of the earth connection
- Total of fence / animal contacts
- Compatible with transponder / self-test
- Leakage detection indicator light
- Fence return indicator light
- Anti-cutoff device
- Reduced power outlet

Power and safety

Device identical to the SECUR 2006 ALT but without the built-in alarm and the connector for the "Transfer" socket.

Ref. **608.800**

*Clos Stop not compatible with transponders

Transponder

Ref. **663.400**

- Continuous control of the fence status
- Detection of broken wires*
- Warning of intrusion or escape*
- Self-powered by the fence wire (no batteries or mains)

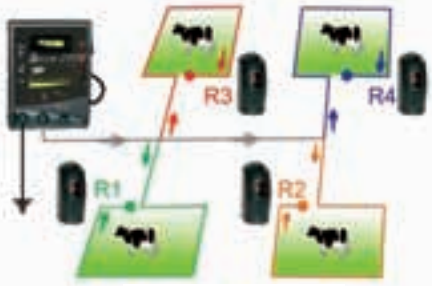
Yet another LACMÉ exclusive! Genuine guardian angels of the installation, up to 4 Sentinels can be installed at critical points on the fencing to keep the SECUR 2006 or 2006 ALT informed of the pulse quality received at these points. Self-powered by the fence pulses, they do not require any battery or 230 V mains connection. Fitted at "milestones" (fig. 1 - example of a long perimeter fence) or at the "end of the line" (fig. 2 - example of several separate enclosures). Provided that the enclosure is suitably configured, they can detect incidents such as crossing of an open barrier, a broken wire, deterioration in earth rod connections and even insufficient conductivity in the conductor or junction points. Finally, a mesh configuration (fig. 3) provides a continuous diagnostic of the available power in each area.

SENTINEL

Absolute containment security!

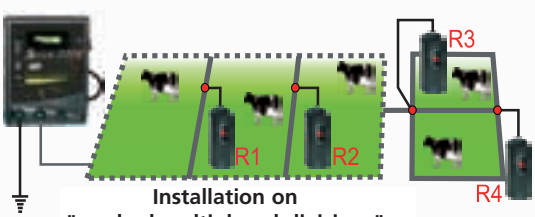
"Post" installation

Figure 1



"End of line" installation

Figure 2



Installation on "meshed multiple subdivisions"

Figure 3

* dependant on fence assembly

the accessories

2-function telephone transmitter:

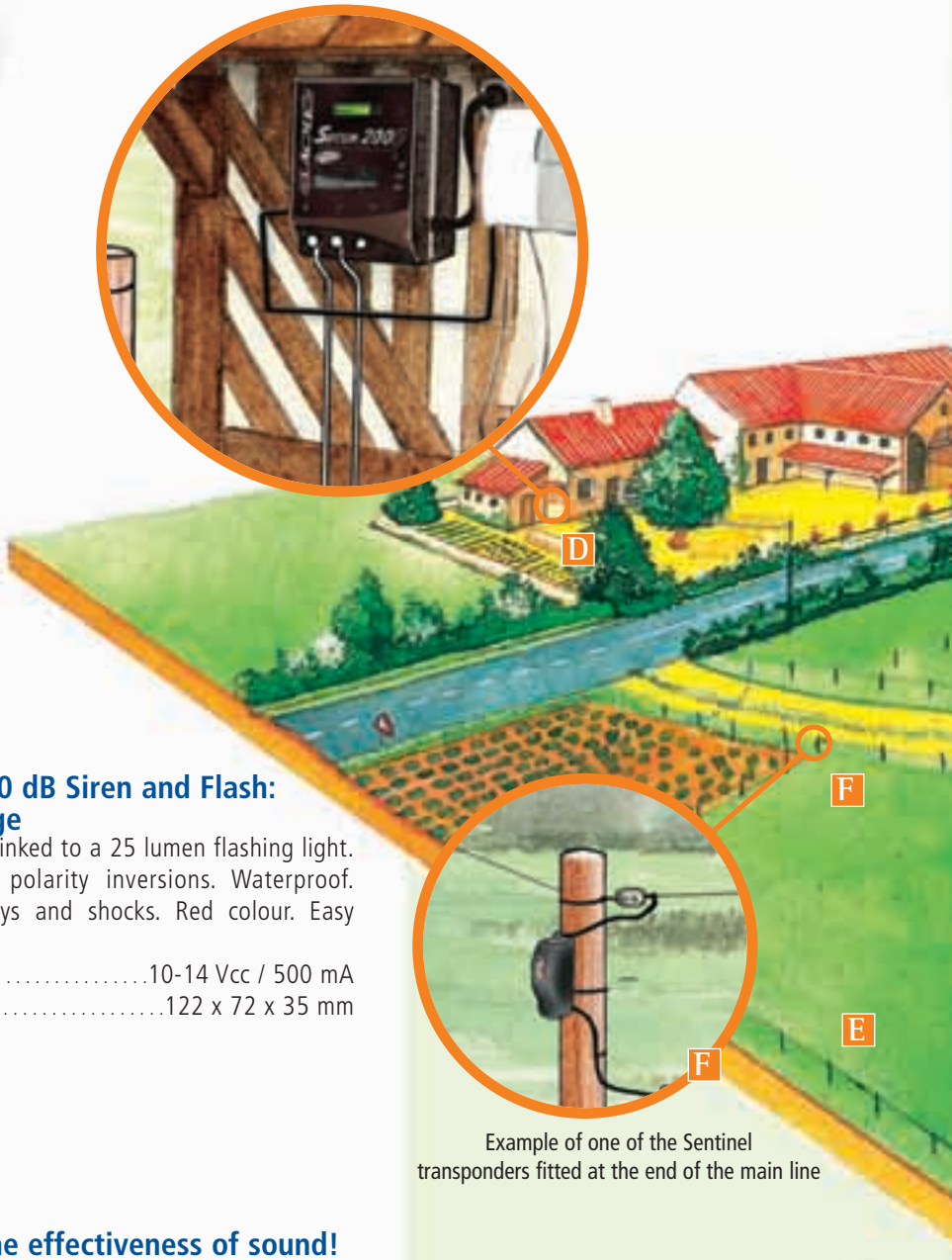
Telephonic alert

Linked via the "Transfer" socket to the SECUR 2006 ALT, this innovation makes a call (up to 6 numbers can be memorized including mobile telephone numbers) as soon as the energizer alarm goes off. Emergency battery is provided in case a power cut occurs.

Distance management of the energizer

Make alterations to your fence in complete safety thanks to the remote control function (On/Off) for any energizer (irrespective of the model or brand) that can be activated from your mobile telephone without requiring you to return to the starting point.

Ref. : **663.500**



Example of one of the Sentinel transponders fitted at the end of the main line

"PREMIUM" 120 dB Siren and Flash: sound and image

120 dB piezo siren linked to a 25 lumen flashing light. Protection against polarity inversions. Waterproof. Resistant to UV rays and shocks. Red colour. Easy assembly on walls.

Power supply: .....10-14 Vcc / 500 mA
Dimensions: .....122 x 72 x 35 mm

Ref. : **663.900**

105 dB siren: the effectiveness of sound!

Power supply: .....6-16 Vcc - 260 mA / 12 VDC
Dimensions: .....55 x 56 x 73 mm

Ref. : **663.800**

Flashing light: visible deterent

Blue colour. Equipped with a Xenon lamp, (90 to 110 flashes per minute), visible from a distance.

Power supply: .....12 Vcc / 150 mA
Diameter: .....70 mm
Height: .....46 mm

Ref. : **663.600**

Clos stop

"Standard" monitoring
from the start of the line
"without transponder"
A, B*, C, G, I

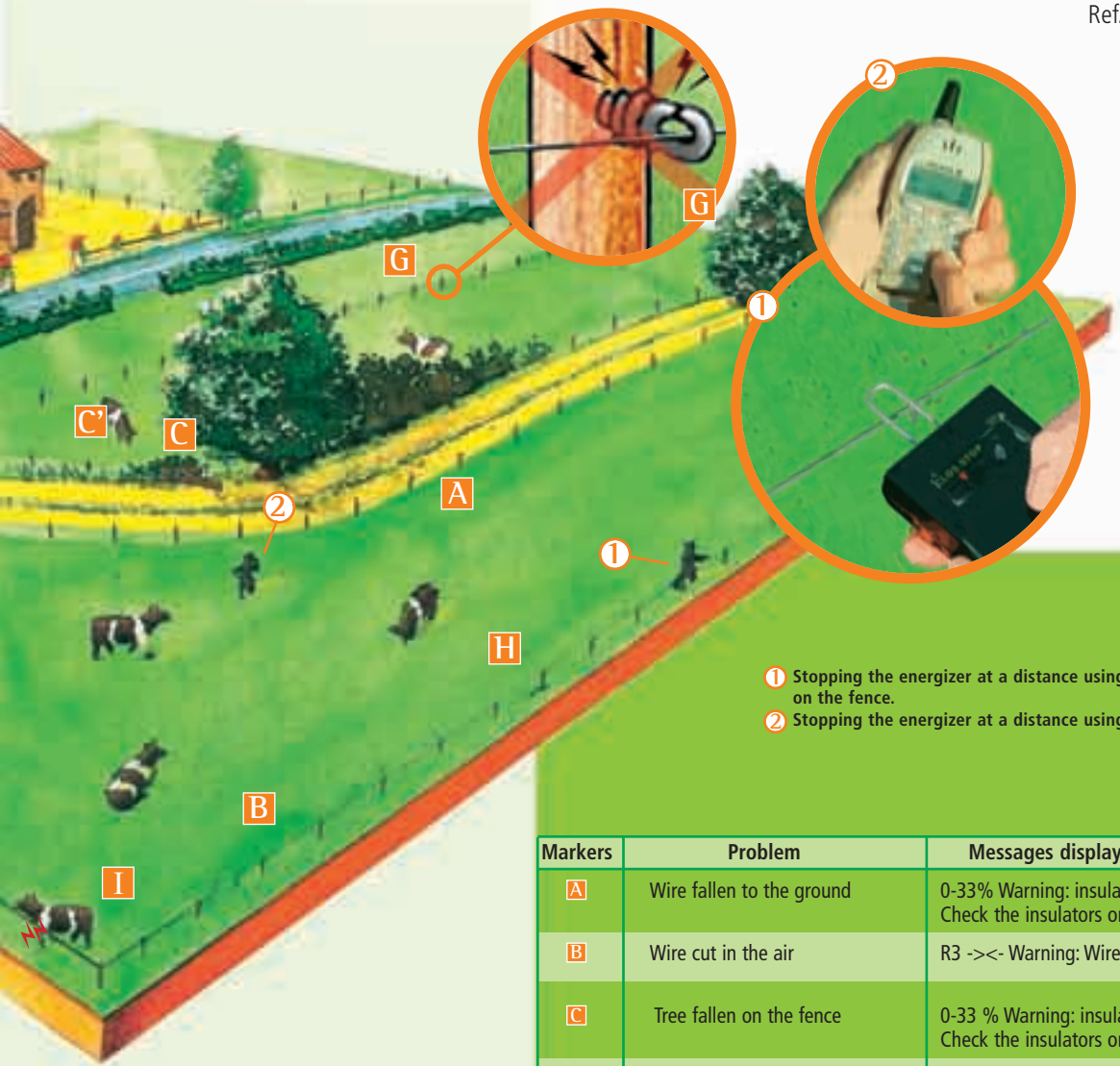
*** by indicator light only and in the event that the enclosure in closed.**

Monitoring by transponders
placed at the end of the line
Triple safety level
A, B, C, D, E, F, G, H, I

Bip'Controller

This focused technology is used to check from a distance whether the wire is energized and whether the level of leakage due to vegetation is excessive (only for enclosures supplied by a SECUR).
In addition, the Bip control is also used for battery powered energizers equipped with the Accu'Protect function.

Ref. **660.902**



① **Stopping the energizer at a distance using a Clos STOP before working on the fence.**
② **Stopping the energizer at a distance using a telephonic transmitter.**

Remote controlled switch used to stop the power supply of any energizer from a distance. Built-in indicator light to detect the presence of electrical pulses on the fencing. Use is only recommended for FORCEFLEX or SECURGAL fences with junctions that conform to our recommendations.
Note: Using a CLOS STOP is incompatible with the Sentinel transponder installation. In this specific case, use a telephone transmitter to control the energizer via a mobile phone.

Ref. **663.000**

Markers	Problem	Messages displayed on SECUR 2006 and 2006 ALT
A	Wire fallen to the ground	0-33% Warning: insulation mediocre Check the insulators or the state of the vegetation
B	Wire cut in the air	R3 -><- Warning: Wire cut on R3
C	Tree fallen on the fence	0-33 % Warning: insulation mediocre Check the insulators or the state of the vegetation
C'	Or abundant vegetation	0-33 % Warning: insulation mediocre Check the insulators or the state of the vegetation
D	Ineffective earth connection	Warning: Conductivity mediocre on R2 Check quality of wire + earth connection (energizer + transponder)
E	Bad quality or degradation of the conductor or junctions	Warning: Conductivity mediocre on R2 Check quality of wire + earth connection (energizer + transponder)
F	Excessively long fence	Warning: Conductivity mediocre on R2 Check quality of wire + earth connection (energizer + transponder)
G	Defective insulation	0-33% Warning: insulation mediocre Check the insulators or the state of the vegetation
H	Open gateway passage	R3 -><- Warning: Wire cut on R3
I	Animal contact detection	Detection of x contacts from start

Secur 2005

Unbeatable value for money

The Secur 2005 is a high power mains energizer for extreme conditions: extremely long fences, bushy terrain, animals that are particularly difficult to contain due to the nature of their fur or hides or their temperaments. The display is presented in the form of indicator control lights that enable the operator to check correct operation, the sufficient quality of the earth connection, the leakage level, and, if the fence is completed in return mode, the presence of the pulse on the end of the line.

Ref. **607.800**

- Voltage peak: **12,000V**
- Maximum output power: **6,000 mJ**
- Typical power stored: ..... 10,000 mJ
- Power into 500 Ohm: .≤ 5,000 mJ
- Reduced capacity power: .1,200 mJ
- Leakage detection indicator light
- Earth connection test
- Fence return indicator light
- Anti-cutoff device
- Reduced power outlet

Accessories

Clos stop

Remote controlled switch used to stop the power supply of any energizer from a distance. Built-in indicator light to detect the presence of electrical pulses on the fencing. Use is only recommended for FORCEFLEX or SECURGAL fences with junctions that conform to our recommendations.

Ref. **663.000**

Bip'Controller

This focussed technology is used to check from a distance whether the wire is energized and whether the level of leakage due to vegetation is excessive (only for enclosures supplied by a SECUR/CAVAL). In addition, the Bip control is also used for battery powered energizers equipped with the Accu'Protect function.

Ref. **660.902**

Secur 2000

Secur 1800

Best Seller

The Secur 2000 is a high power mains energizer for extreme conditions: average length fences, bushy terrain, animals that are particularly difficult to contain due to the nature of their fur or hides or their temperaments. The display is presented in the form of indicator control lights that enable the operator to check correct operation, the sufficient quality of the earth connection, the leakage level, and, if the fence is completed in return mode, the presence the pulse on the end of the line.

Ref. **606.400**

- Voltage peak: **10,000V**
- Maximum output power: . .**4,000 mJ**
- Typical power stored:..... 8,000 mJ
- Reduced capacity power: ....800 mJ

- Leakage detection indicator light
- Earth connection test
- Fence return indicator light
- Anti-cutoff device
- Reduced power outlet

For universal use

The Secur 1800 is a powerful mains energizer for normal conditions and average length fences. The display is presented in the form of indicator control lights that enable the operator to check correct operation, the sufficient quality of the earth connection, the leakage level, and, if the fence is completed in return mode, the presence the pulse on the end of the line.

Ref. **606.200**

- Voltage peak: **10,000V**
- Maximum output power: . .**2,000 mJ**
- Typical power stored: ..... 3,200 mJ
- Reduced capacity power: ....400 mJ

- Leakage detection indicator light
- Earth connection test
- Fence return indicator light
- Anti-cutoff device
- Reduced power outlet

Summary Table

◐ Distance management function for the energizer only
◐ Clos Stop incompatible with the use of transponders

○ Optional
NA = Not applicable
*On enclosure without earth connection using a neutral wire as return

	Ref.	Contact Counter	Digital Screen	Transponder	Reduced Power	Telephonic Transmitter	Bip Contrôle	Clos Stop	Built-in Alarm	Siren	Flashing Lamp	Voltage Peak	Output/Stored Max. Power	Theoretical KMS	Ideal Conditions	Average Conditions	Bad Conditions
Secur 2006 ALT	608.000	●	●	●	●	●	●	◐	●	○	○	12 kV	**6**/10**J**	350 km	55 km	10 km	5/20 km*
Secur 2006	608.800	●	●	●	●	◐	●	◐				12 kV	**6**/10 **J**	350 km	55 km	10 km	5/20 km*
Secur 2005	607.800				●	◐	●	●				12 kV	**6**/10 **J**	350 km	55 km	10 km	5/20 km*
Secur 2000	606.400				●	◐	●	●				10 kV	**4**/8 **J**	170 km	35 km	8 km	4/14 km*
Secur 1800	606.200				●	◐	●	●				10 kV	**2**/3.2 **J**	90 km	18 km	6 km	2/8 km*

UBIson 12000

The "four in one" energizer! It optimises the level of stimulus felt by the animal at constant power. For **absolute safety,** the 4'Pulstronic Technology allows power to be distributed into the grass and the animal whilst protecting any human who could come into contact with the fencing. Very effective!

- Backlight digital display of the energizer and installation parameters.
- Output power modulation according to current impedance and variation over time.
- It provides the maximum amount of power in compliance with the A11 amendment of the current standard (which will come into effect soon), which recommends that no more than 5 Joules should ever be delivered into any human body that comes into contact with the fence.

Ref. **609.600**

- **Equivalent stored power:..... 20 joules**
- Controlled output power:.....12 joules
- Voltage peak:.....**10,000 V**
- Power supply:.....230 V

UBIson 8000

- Backlight digital display of the energizer and installation parameters.
- Output power modulation according to current impedance and variation over time.
- It provides the maximum amount of power in compliance with the A11 amendment of the current standard (which will come into effect soon), which recommends that no more than 5 Joules should ever be delivered into any human body that comes into contact with the fence.

Ref. **609.700**

- Equivalent stored power:.....**12 joules**
- Controlled output power:.....8 joules
- Voltage peak:.....**10,000 V**
- Power supply:.....230 V

Bipulstronic® Technologie

controlled power

Ubison advantages

3 connection terminals:

- 1 hot/electrified wire terminal,
- 1 neutral/earth wire terminal,
- 1 earth rod quality check terminal (optional use).

3 check LEDs:

- Green LED in the middle. Indicates when the unit is ON.
- Blue LED to the left. Indicates the start of MAX POWER mode when the unit is affected by overgrown vegetation.
- Red LED to the right. Operational EARTH TEST for the optional check of the quality of the earth rod installation.

DUAL5000

Battery-powered and powerful UBI energizer specially designed to be used on difficult sites, installations subject to repeated power cuts, fences far away from power source or sites overgrown with vegetation.

Power supply options:

- Universal mains 110 – 230 V / 50-60 Hz
- "Exotic" mains such as: Invertors, ground power units, etc.
- 12 V battery (coupled or not to a solar and/or wind power source).

- 12 V battery is kept charged
- Automatic eco mode for when the battery reaches a certain level of discharge, in order to increase the 12 V battery life.
- 12 V input (on the crocodile clips) protected against short circuits and polarity inversions.
- Bip' Control compatible in 12 V mode (in order to check the charge of the battery from a distance).

- Equivalent stored power: ..... **7 joules**
- Maximum output power provided: .....5 joules
- Voltage peak: .....**10,000 V**

New!

Ref. **609.300**

Exclusive! Mixed power supply

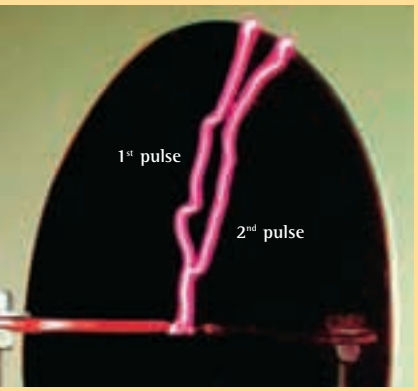
BIpulstronic® Technologie

EASY

DIFFICULT

12V

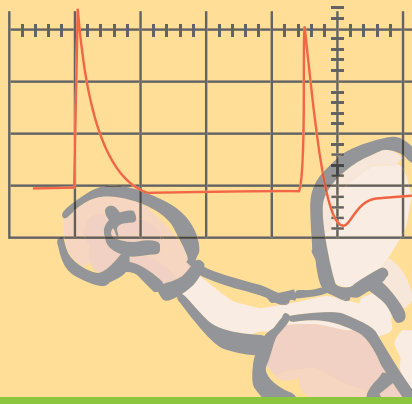
WARRANTY 3 year Energizer



BIpulstronic® Technologie

EXCLUSIVE LACMÉ PATENT
DUAL PULSE:

LACMÉ has developed an exclusive revolutionary system known as "BiPulstronic" that applies a dual pulse. The advantage of this technology is that it reduces the raw power of the energizers while increasing the level of shock felt by the animal when it touches the fence line. This major advance in the field of "controlled power" in the interest of public safety, has the essential advantage of ensuring that all the Secur, Caval and the UBIson 5000 mains energizers fully comply with the recommendations of changes in the current standard (EN 60335-2-76) voted on 12/09/2006 by the CENELEC, which will soon come into force.



Summary Table

- Distance management function for the energizer only
- Clos Stop incompatible with the use of transponders
- Optional
- NA = Not applicable
- *On enclosure without earth connection using a neutral wire as return

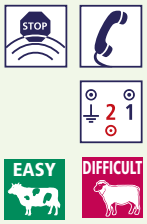
	Ref.	Contact Counter	Digital Screen	Transponder	Reduced Power	Telephonic Transmitter	Bip Contrôle	Clos Stop	Built-in Alarm	Siren	Flashing Lamp	Voltage Peak	Output/stored max. power	Theoretical KMS	Ideal Conditions	Average Conditions	Bad Conditions
UBIson 12000	609.600	●	●			◐						10 kV	**12**/20 J	650 km	60 km	18 km	10/60 km*
UBIson 8000	609.700	●	●			◐						10 kV	**8**/12 J	350 km	40 km	15 km	7/40 km*
Dual 5000	609.300					◐	■ (12 volt only)					10 kV	**5**/7 J	200 km	30 km	10 km	4/25 km*

Clos 2005

The energizer designed for difficult conditions (very large areas, shrubland, stubborn animals). **It is very powerful and can be used on several enclosures at the same time.** Its specific technology enables it to efficiently deal with the ageing of the installation (deterioration of the earth rod connection, increased resistance of the wire or junctions, etc.). Fitted with a second output to contain sensitive animals or electrify the inside wire of a fence for young animals.

- Maximum peak voltage: ..... **10,000 V**
- Normalised power: ..... ≤ 5,000 mJ sur 500 Ohms
- Maximum power delivered: ..... **6,000 mJ**
- Typical power stored: ..... 7,800 mJ

Ref. **602.800**



Clos 2000

Powerful energizer for difficult animals. Well adapted to long or poorly insulated fences, this is a universal energizer for equipping the average farm.

It is the most frequently sold energizer of them all.

- Maximum peak voltage: ..... **10,000 V**
- Maximum power delivered: ..... **4,000 mJ**
- Typical power stored: ..... 4,800 mJ

Ref. **601.700**

Clos 1800

Energizer for sensitive animals or for correctly installed fences of short and average length.

- Maximum peak voltage: ..... **10,000 V**
- Maximum power delivered: ... **1,800 mJ**
- Typical power stored: ..... 1,900 mJ

Ref. **601.000**

Clos 200

This average-power energizer is perfect for domestic applications such as horse enclosures. It is particularly well suited to normal conditions for average fences.
It features an analogue system for analysing the quality of any pulse returns.

- Maximum peak voltage:.....**10,000 V**
- Maximum power delivered:**2,000 mJ**
- Typical power stored:.....4,000 mJ

Ref. **605.801**

Clos 100

Ideal for keeping horses, foals or other sensitive domestic or small animals in conditions favourable for average fences.
It features an analogue system for analysing the quality of any pulse returns.

- Maximum peak voltage:.....**10,000 V**
- Maximum power delivered:.**1,000 mJ**
- Typical power stored: ..... 2,000 mJ

Ref. **605.301**

Summary Table

● Distance management function for the energizer only

*On enclosure without earth connection using a neutral wire as return

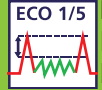
	Ref.	Telephonic Transmitter	Reduced Power	Return quality	Clos Stop	Voltage Peak	Maximum output power	Max. stored power	Theoretical KMS	Ideal Conditions	Average Conditions	Extreme conditions
Clos 2005	602.800	●	●		●	10 KV	**6J**	**7.8J**	350 km	55 km	10 km	5/20 km*
Clos 2000	601.700	●			●	10 KV	**4J**	**4.8J**	170 km	35 km	8 km	4/14 km*
Clos 1800	601.000	●			●	10 KV	**1.8J**	**1.9J**	90 km	16 km	5 km	2/8 km*
Clos 200	605.801	●		●	●	10 KV	**2J**	**4J**	100 km	18 km	6 km	2.5 km*
Clos 100	605.301	●		●	●	10 KV	**1.1J**	**2J**	60 km	15 km	3 km	1.5 km*

Compact 9v / 12v

Genuine alternatives to mains appliances, the "compact" battery powered devices use a 9 V or 12 V battery and are 100% compatible with solar energy. Their reduced weight and compact design make them the ideal solution for the electrification of mobile or subdivision fences. Thanks to the digital technology piloted by microprocessor, they offer a multitude of functions that all meet the needs of livestock professionals.

The + s

"ECO 1/5" function



Pressing and holding the button for 4 seconds is enough to enable the "ECO 1/5" function.
In five pulses, the first is determined by the position of the output control and the next four pulses are at the minimum value. This function considerably reduces consumption while maintaining maximum containment security.

ACCU'PROTECT function

This is the guardian angel of power supply! This new function offers:
- an automatic switch to "ECO 1/5" mode (depending on the models) as soon as the power supply falls below 30 % of its capacity.
- in the event of power supply by 9 V battery, the opportunity to connect the LACME 2W supplementary solar panel. Optimum independence assured!

Power recuperator

Uses the capacitive effect of the fence to limit consumption.
The energy thus recuperated is reused for the following pulse.

Compatibility with the BIP CONTROL

Remote check of battery power level

Battery use compensator

Guarantees almost constant effectiveness however old the battery may be.

Solar panel or wind turbine generator connection at the front

For more assurance!

Electronic power variator

Linear progression
1 notch = 10%

Mains adapter

This adaptor is the essential accessory for operating your energizer on a mixed power supply (DUAL) with only one 12 V wet cell battery (lead, suitable format). It must not be used with a 9 V battery. It can also power the energizer without a wet cell battery (directly connected to the mains supply).

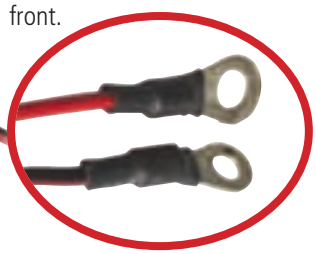
This accessory is not a battery charger.

It is the only mains adaptor compatible with LACMÉ DUAL type energizers. For safety reasons, the adaptor must NEVER be connected to any other non-DUAL energizer. It must not be used on an energizer from any other manufacturer, or on any old LACMÉ model not designed for this purposes (if in doubt, refer to the guide provided with your energizer).

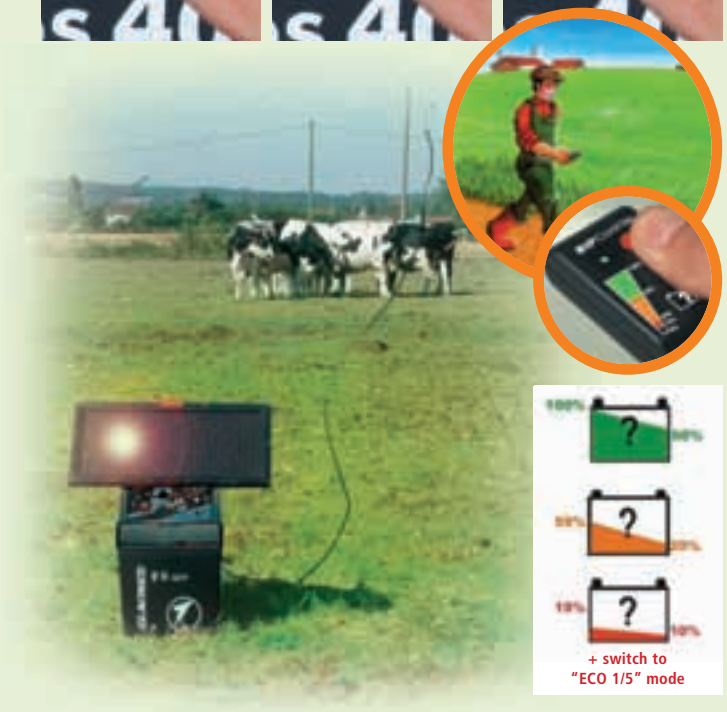
- Input: 110 / 240 VAC - 50-60 Hz
- Output: 13.2 VDC – 380 mA

Ref. **624.000**

Eye connectors with a dia. 3 and 4 mm locating device for a connection to solar panel or wind turbine generator terminals at the front.



Note: All the energizers of our 9 and 12 V ranges (barring Clos 130-2 and EcoStop) manufactured after 15/10/2007 are designed to comply with the DUAL function and are currently undergoing the approval process.



3 colour dry/wet cell battery test:

You have two options to check the state of the power supply charge:
- simply press the pushbutton on the energizer. The L.E.D. lights up in green, orange and red depending on the voltage remaining in the power supply. The L.E.D. goes out when the charge level is below 10%.
- use the brand new BIP CONTROL at a distance to check along the enclosure without needing to return to the energizer.

This device, in addition to emitting a Beep at each pulse, lights up a 3-colour L.E.D. that functions like the L.E.D. found on the majority of appliances.

	Daily reading* in AH/day 9 V - 12 V	Instantaneous average** consumption 9 V - 12 V
Clos Lux 2W	1.13 AH/D - 0.56 AH/D	67 mA - 43 mA
Clos 40	1.60 AH/D - 1.03 AH/D	67 mA - 43 mA
Clos Soleil 2W	0.95 AH/D - 0.27 AH/D	59 mA - 31 mA
Clos 30	0.98 AH/D - 0.55 AH/D	41 mA - 23 mA
Clos 20	0.72 AH/D - 0.43 AH/D	30 mA - 18 mA
Clos 10	0.50 AH/D - 0.38 AH/D	21 mA - 16 mA

*Zone 3 in summer.
**Variator in maximum position.

Summary Table for energisers on next page

	Ref.	Power Supply Provided	Eco 1/5	Accu protect	3 Col. Power Supply Test	Bip Control	Power Recuperator	Battery Use Compensator	Variator	Voltage Peak	Output/store d max. power	Theoretical KM	Ideal Conditions	Average Conditions	Bad Conditions
Clos Lux 2W	616.400	12 V / 30 Ah	●	●	●	●	●	●	●	13 kV	0.60 J	22 km	6 km	2 km	1 km
Clos 40	616.100	-	●	●	●	●	●	●	●	13 kV	0.60 J	22 km	6 km	2 km	1 km
Clos 30	615.600	-	●	●	●	●	●	●	●	13 kV	0.32 J	15 km	4 km	1.5 km	0.5 km
Clos 20	615.000	-		●	●	●	●	●	●	13 kV	0.24 J	12 km	3 km	1 km	-
Zap 5	614.026	9 V / 55 Ah			●					10 kV	0.25 J	12 km	3 km	1 km	-
Zap Duo 6	614.330	6 V / 12 V							●	9.9 kV	0.36 J	16 km	4 km	1.5 km	0.5 km
Zap Duo 12	384.312	12 V / 85 Ah								9.6 kV	1.6 J	30 km	10 km	3 km	0.5 km

Clos Lux 2 W

Clos 40

Discreet and easy to handle, this is the most powerful compact device on the market with 600 mJ. The Clos Lux 2W solar kit is delivered as standard with 2 W solar panel and 12 V / 32 AH wet cell battery.

- Voltage peak: ..... **13,000 V**
- Output power: ..... **150 to 600 mJ**
- Typical power stored: ..... 800 mJ
- Power supply: ..... 12 V** to 9 V

* for France only
** recommended

- Electronic variator
- 3-colour power supply test
- Eco 1/5 function
- Accu'protect
- Battery use compensator
- Power recuperator
- Bip control compatible
- Solar panel terminals at the front

Ref. **616.100** Clos 40
Ref. **616.400** Clos Lux 2 W

Zap Solar

A genuinely economical fence energiser ideal for strip grazing, paddock dividing or smaller field boundaries. Can be solar assisted

2W
On/Off
EASY

- Voltage peak: ..... **10,000 V**
- Output power: **250mJ**
- Typical power stored: ..... 300 mJ
- Power supply: ..... 9 V

Ref. **614.026 Zap 5**
Ref. **614.126 Zap Solar**

Zap Duo 12

"Simple & economical 12v strip grazing/ paddock dividing energiser with power in reserve" Mounts on it's own tread-in earth stake. Compatible with any 12v battery. Optional 12v transformer can adapt it to run from mains supply.

EASY
DIFFICULT

- Voltage peak: ..... **9,600 V**
- Output power: **1.0J**
- Typical power stored: ..... 1.6 J
- Power supply: ..... 12 V

Ref. **384.312 Zap Duo 12**

For performance guides refer to summary table on page 19

Clos 30

Stand alone energizer combining power and small appetite. Powerful, it burns the grass and may be connected easily to a 2 W solar panel thanks to its front panel connection.

- Voltage peak: .....**13,000 V**
- Output power: .....**100 to 320 mJ**
- Typical power stored:.....400 mJ
- Power supply: ..... 9 V* to 12 V

*recommended

Ref. **615.600**

New! 13,000 V transformer

- Electronic variator
- Eco 1/5 function
- 3-colour power supply test
- Accu'protect
- Battery use compensator
- Power recuperator
- Bip control compatible
- Solar panel terminals at the front

Clos 20

- Voltage peak: .....**13,000 V**
- Output power:.....**75 to 240 mJ**
- Typical power stored:.....300 mJ
- Power supply: ..... 9 V* to 12 V

*recommended

- Electronic variator
- ECO 1/5 function
- 3-colour power supply test
- Accu'protect
- Battery use compensator
- Power recuperator
- Bip control compatible

Ref. **615.000**

Zap Duo 6

- Voltage peak: .....**9,900 V**
- Output power:.....**360 mJ**
- Power supply:..... 6v internal or .....12v external battery

Wet battery leads, used to convert 9V energiser to 12V.

Ref. **689.708**

New!

- Operates from 4 internal D-Cell batteries or from 12v external battery
- Variable pulse rate to extend battery life
- Multiple mounting possibilities
- Power indicator
- Low battery warning

Ref. **614.330**

For performance guides refer to summary table on page 19

The solar or wind energy energizers of the PERFO (PERFORMANCE) range have such a high level of power and autonomy that you could almost forget that they run on a 12 V battery.
They are perfect for creating oversized "mains" electrical fence networks or when no mains power is available. They can even electrify long enclosures affected by vegetation growth.

This new range with its modern design has extremely innovative characteristics in the following areas:

Mechanical:
- a 1/4 turn ergonomic handle* gives practical, rapid access to the battery,
- a highly dissuasive antitheft system (optional), includes the earth connection function,
- a foldaway solar panel frame makes it easy to move the assembly around,
- an optional, comfortable and robust strap makes more nomadic use possible.

Electrical:
- Significant improvement in the open-circuit voltage with 15 KV,
- Outstanding consumption/power ratio.

New! 13,000 V transformer

Operating position with antitheft option and solar panel

Transport position (padlocks not supplied)

* It is designed to resist a cycle of more than 1,000 violent shocks.

The + s

"ECO 1/5" function

Pressing and holding the button for 4 seconds is enough to enable the "ECO 1/5" function.
In five pulses, the first is determined by the position of the output control and the next four pulses are at the minimum value. This function considerably reduces consumption while maintaining maximum containment security.

ACCU'PROTECT function

This is the guardian angel of power supply!
This new functions offers:
- an automatic switch to "ECO 1/5" mode (depending on the models) as soon as the power supply falls below 30% of its capacity.
- in the event of supply by 12 V battery, a built-in deep anti-discharge protection. The device stops on its own before the battery suffers any irreversible damage. As a result, the battery preserves 100% of its initial capacity in AH.

Compatibility with the BIP CONTROL

Remote check gattery power level.

Dry/wet cell battery use compensator

Guarantees an almost constant effectiveness however old the battery may be.

Power recuperator

Uses the capacitive effect of the fence to limit consumption.
The energy thus recuperated is reused for the following pulse.

Solar panel or wind turbine generator connection at the front

For more assurance!

Electronic power variator

Linear progression
1 notch = 10%

Auger + antitheft handle kit for 12v Secur Range

This galvanized steel assembly secures the energizer to the ground on which it is placed. Moreover, it functions as an earth connection and prevents the unit from being opened, as well as the solar panel from being removed.

The top of the auger can be sealed in a concrete block to increase the tamper resistance of the system.

Supplied in kit form (padlocks not supplied)

Ref. **688.906**

New!

Mains adapter

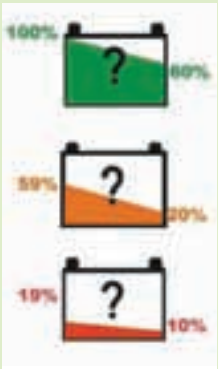
This adaptor is the essential accessory for operating your energizer on a mixed power supply (DUAL) with only one 12 V wet cell battery (lead, suitable format). Eye connectors with a dia. 3 and 4 mm locating device.

Ref. **624.000**

Strap for Secur 12 V energizers

Vinyl strap kit with attachment fittings. This accessory makes it easy to move the energizer/battery/solar panel assembly around.

Ref. **689.507**

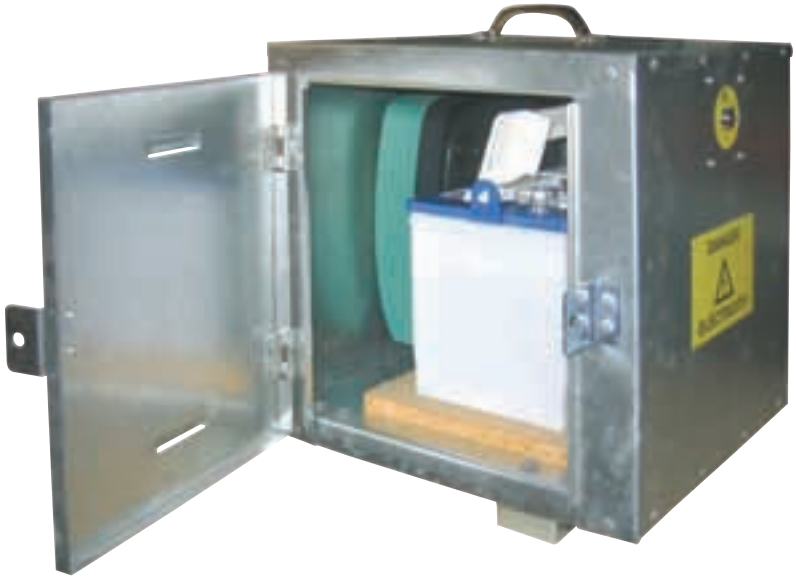


+ switch to "ECO 1/5" mode

3-colour dry/wet cell battery test:

You have two options to check the state of the power supply charge:

- simply press the pushbutton on the energizer. The L.E.D. lights up in green, orange and red depending on the voltage remaining in the power supply. The L.E.D. goes out when charge level is below 10%.
- use the brand new BIP CONTROL at a distance to check along the enclosure without needing to bring the energizer right up to the fence. This device, in addition to emitting a Beep at each pulse, lights up a 3-colour L.E.D. that functions like the L.E.D. found on the majority of appliances.



Metal Security Box

- lockable galvanised steel box
- Space for energiser and battery
- Can be electrified

Ref. **444.651**

Secur 500

New!

INTELLIGENT POWER

- Delivers the impulse **only** when the animal **touches the fence**
- **Performance** with **economy**, power when it's needed
- Variable power output, from **1 to 5 joules**
- **Peak voltage 15,000v,** constant regardless of output settings
- **More** Performance **Less** Consumption

Ref. **613.800**

Up to

10x Longer Battery Life with iPulse®

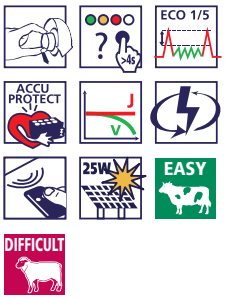
Summary Table

	Ref.	Eco 1/5	Accu Protect	3 Col. Power Supply Test	Bip Contrôl	Power Recuperator	Battery Use Compensator	Variator	Voltage Peak	Output/stored max. power	Theoretical Kms	Ideal Conditions	Average Conditions	Bad Conditions
Secur 500	613.800	●	●	●	●	●	●	●	15 kV	5/6 J	250 km	50 km	30 km	12 km
Secur 300	613.600	●	●	●	●	●	●	●	15 kV	3/4 J	150 km	30 km	15 km	8 km
Secur 200	613.400	●	●	●	●	●	●	●	15 kV	2/2,5 J	100 km	25 km	8 km	4 km
Secur 130	613.200	●	●	●	●	●	●	●	15 kV	1,3/1,5 J	60 km	20 km	5 km	2 km
Secur 100	613.000		●	◐	●	●	●	●	15 kV	1/1,3 J	40 km	15 km	3 km	1.5 km

◐ No test button, only the LED colour changes according to the charge in the wet cell battery.

WARRANTY 3 year Energizer

Secur 300

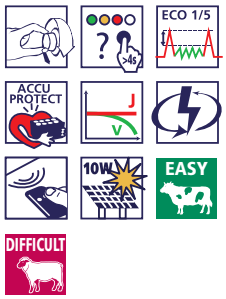


Ref. **613.600**

These models are favourites amongst hunting associations and sheep breeders. They offer the power of a mains energizer in this 12 V battery device for long or extremely long fences, difficult conditions or stubborn animals.
Equipped with a power variator, this is the ideal appliance for protecting fields or sheep.

- Voltage peak: **15,000 V**
- Output power: **500 to 3,000 mJ** (12 V) 500 to 900 mJ (9 V)
- Typical power stored: 4000 mJ
- Power supply: 12 V

Secur 200



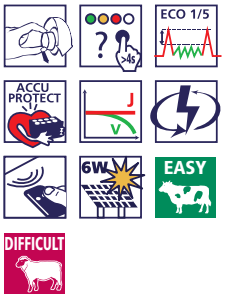
Ref. **613.400**

More powerful than the Clos 130-3, it also possesses an **electronic antitheft device** by built-in secret code. Its large power variation range is easily managed thanks to the linear variator (one notch = 10% of the maximum).

- Voltage peak: **15,000 V**
- Output power: **500 to 3,000 mJ** (12 V) 500 to 900 mJ (9 V)
- Typical power stored: 4,000 mJ
- Power supply: 12 V** – 9 V

** recommended

Secur 130



Ref. **613.200**

More powerful than the Secur 100, it features the Eco 1/5 function and front panel terminals to make the connection to a solar panel easier. Designed to electrify enclosures of average size, it has an unbeatable function/power/price ratio.
Can be used with one or two 9 V batteries.

- Voltage peak: **15,000 V**
- Output power: **220 to 1,300 mJ** (12 V) 220 to 350 mJ (9 V)
- Typical power stored: 1,500 mJ
- Power supply: 12 V** – 9 V

** recommended

Secur 100

Ref. **613.000**

This is the worthy successor of the Zap 130 and incorporates the latest functions: battery level indicator at each pulse, Accu'Protect. Energizer on 12 V battery for average or long fences. Output power set by electronic variator. The 1,000 mJ at maximum position make it five times more powerful than a standard battery device.
Can be used with one or two 9 V batteries.

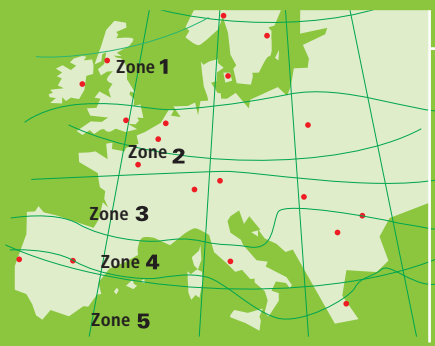
- Voltage peak: **15,000 V**
- Output power: **170 to 1,000 mJ** (12 V) 170 to 300 mJ (9 V)
- Typical power stored: 1,300 mJ
- Power supply: 12 V** – 9 V

** recommended

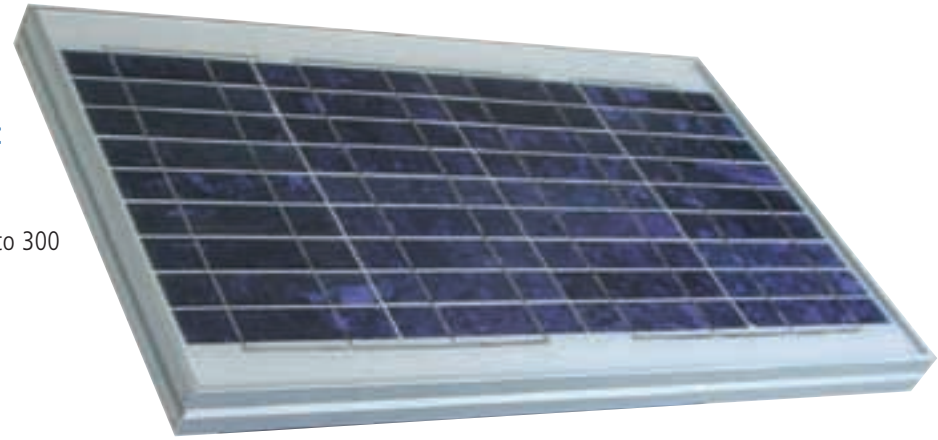
The solar energizer: the comfort of total independence of the environment.

Because the sun is a constant source of energy, equipping your energizer with a solar panel demonstrates your concern for the environment. Whether non-crystalline or polycrystalline based, the tried and tested photovoltaic cell technology transforms the light of day into electricity and at the same time recharges the battery of your Compact or Secur 12v energizer. The power thus produced is first regulated through the charge regulator (only on 10 or 25 Watt panels) then stored in the buffer battery which serves as a reserve to supply power to the device during the night or days when there is no sun.
Each LACME solar panel is equipped with anti-return protection to stop return discharge in the solar panel once the night has fallen.

Average daily recharging capacity in AH of a solar panel in summer
These values may be divided by 4 in winter depending on the zones concerned



	2 W	6 W	10 W	25 W
Zone 1	0.37	1.12	1.85	4.62
Zone 2	0.40	1.20	2.00	5.00
Zone 3	0.47	1.42	2.35	5.87
Zone 4	0.57	1.72	2.85	7.12
Zone 5	0.75	2.25	3.75	9.37



25 W solar panel + foldaway support

- Ultra-compact polycrystalline technology
- Shock resistant aluminium frame
- Supplied with attachment support for Secur 100 to 300
- Supplied with 25 W regulator
- Recommended for Secur 300

Ref. **626.600**

10 W solar panel + foldaway support

- Ultra-compact polycrystalline technology
- Supplied with charge regulator
- Shock resistant aluminium frame
- Supplied with attachment support for Secur 100 to 300
- Recommended for Secur 200

Ref. **626.100**

10 W solar panel + support post

- Ultra-compact polycrystalline technology
- Delivered with charge regulator
- Shock-resistant aluminium frame
- 3-point post
- Ideal for increasing the power of the first panel already set up on the device

Ref. **626.200**

2W solar panel attachment kit

- for Clos 10, 15, 20, (and the Clos 30s manufactured before 2003)
- compatible with 9 V battery or 12 V / 30 AH wet cell battery

Ref. **669.702** (Blister)

2 W solar panel + support

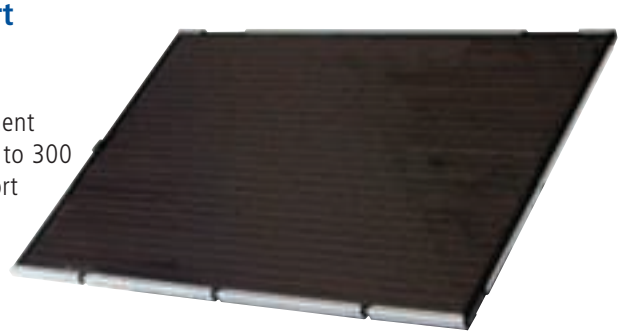
- Compatible with all "Compact" energizers
- Built-in mounting bracket

Ref. **625.200**

6 W solar panel + foldaway support

- Recommended for Secur 100 - 130
- Supplied with attachment support for Secur 100 to 300
- Complete panel support

Ref. **625.400**



"Clos" 12 V solar panel adapter kit

- Compatible with any energizer of the former "Perfo" range (Clos 130-2, etc.).

Ref. **624.500**

6 W solar panel + support post

- Recommended for Secur 100 - 130
- Complete panel support
- 3 point post
- Ideal for increasing the power of the first panel already set up on the device

Ref. **625.800**

The sun emits light.
The photovoltaic cells capture and transform the light into electricity.
The charge regulator, if necessary, regulates any overloading of the battery.
The + and - connections on the façade panel connect the regulator to the electronics of the energizer.
The buffer battery stores the electricity produced.
How does it work?
Towards the fence.
The electric pulse is sent on the wire making up the fence.
The electronic circuit generates the form and the timing of the electrical pulse.

Wind turbine generator	Solar panels	Reference	Recommended for	Length (mm)	Width (mm)	Regulator	Anti-return
	25 Watt	626.600	Secur 300 - 200 - 130 - 100	54	45	●	●
	10 Watt + post	626.200	Secur 200 - 130 -100	35	32	●	●
	10 Watt	626.100	Secur 200 - 130 -100	35	32	●	●
	6 Watt + post	625.800	Secur 130 -100	46	31		●
	6 Watt	625.400	Secur 130 -100	46	31		●
	2 Watt	625.200	Clos 40,30,20,10	32	17		

*** Power equivalent to a solar panel of 150 W – Average wind speed of 10 m/s**

Terrestrial ÉOLE 300

Ref. **627.000**

* Limited warrantee (consult your local dealer)

The most powerful wind turbine generator of its kind.
The new Terrestrial Éole 300! Quieter, more efficient, it is carefully designed to deliver maximum energy with even the weakest wind, beating other competitors in its field.
The blades stop turning when the battery is full, or when the winds are too weak or too strong.

- Blades: **injected composite materials**
- Intelligent internal regulator: **maximum efficiency analysis**
- Profiling: **aeronautical quality aluminium alloy**
- Alternator: **Neodymium magnets**
- Maintenance-free: **only 2 moving parts**

- Rotor diameter: 1.17 meters
- Weight: net 5.9 kg - gross 7.7 kg
- Packaging dimensions: 686 x 318 x 229 mm
- Speed of startup wind: 2.68 m/s (6 mph)
- Voltage: 12 VDC
- Calibrated power: 200 W at 12.5 m/s (28 mph)
- Turbine control: Smart microprocessor control of peaks in power
- Overspeed protection: electronic brakes
- Monthly kilowatt/hour: 38 kWh at 5.4 m/s (12 mph)
- Average daily recharging: 25 Ah/j at 3.6 m/s
- Wind resistance: max. 49.2 m/s (110 mph) is ± 177 km/h

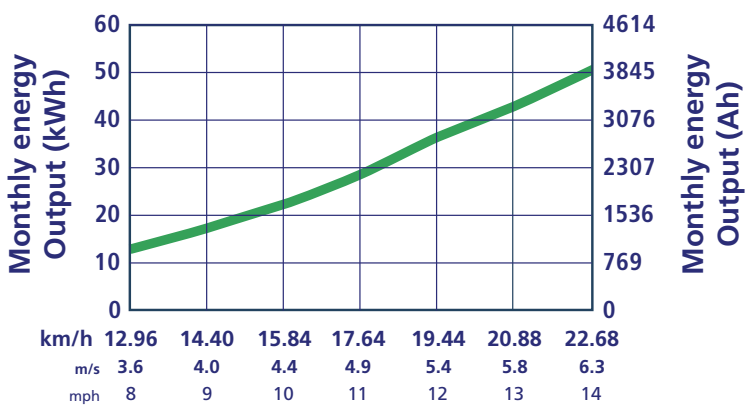
DUAL 5000 (p. 19)

Coupled with a powerful stand alone energizer, a 25 W solar panel and one to two 85 Ah batteries, the **Terrestrial Éole 300** is the ideal solution for a completely independent installation of fences far away from a conventional power source.

Recouping the cost of this investment is quicker when the wind turbine is also used with a 12 V pump which raises water, allowing the livestock to drink and graze on the pastures (summer, high mountain pasture).

Note: on the 12 V energizers equipped with a battery storage unit, expect to drill through a container and then a stuffing box in order to directly attach the Terrestrial Éole 300 on to the battery adapter connectors with a suitable strip of cable (see note).

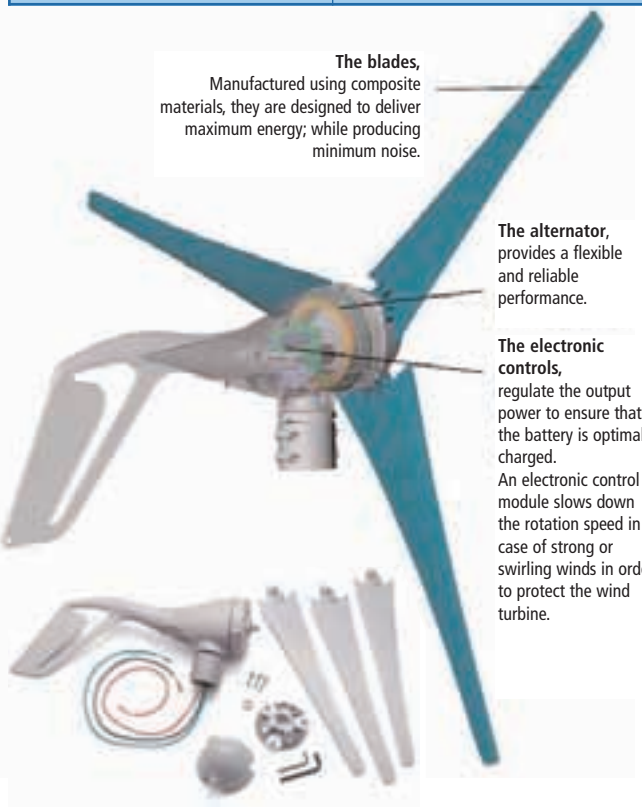
ENERGY PERFORMANCE



Average annual wind speed

Average daily recharging capacity of a Terrestrial Éole 300

Average wind source	Weighted recharging in Ah/day
14,4 km/h (4 m/s)	33 Ah / day
18,0 km/h (5 m/s)	55 Ah / day
21,6 km/h (6 m/s)	80 Ah / day



The blades, Manufactured using composite materials, they are designed to deliver maximum energy; while producing minimum noise.

The alternator, provides a flexible and reliable performance.

The electronic controls, regulate the output power to ensure that the battery is optimally charged. An electronic control module slows down the rotation speed in case of strong or swirling winds in order to protect the wind turbine.

All installation, maintenance and security related information is carefully detailed in the Terrestrial Éole 300 user manual and Full Mast 8.80 m installation manual.

Wind resources at 50 m above ground for 5 different topographical conditions

	Sheltered land		Open field		Coastal region		High tide		Hills and mountains	
	ms^{-1}	Wm^{-2}	ms^{-1}	Wm^{-2}	ms^{-1}	Wm^{-2}	ms^{-1}	Wm^{-2}	ms^{-1}	Wm^{-2}
	> 6.0	> 250	> 7.5	> 500	> 8.5	> 700	> 9.0	> 800	> 11.5	> 1800
	5.0-6.0	150-250	6.5-7.5	300-500	7.0-8.5	400-700	8.0-9.0	600-800	10.0-11.5	1200-1800
	4.5-5.0	100-150	5.5-6.5	200-300	6.0-7.0	300-400	7.0-8.0	400-600	8.5-10.0	700-1200
	3.0-4.5	50-100	4.5-5.5	100-200	5.0-6.0	150-300	5.5-7.0	200-400	7.0- 8.5	400- 700
	< 3.5	< 50	< 4.5	< 100	< 5.0	< 150	< 5.5	< 200	< 7.0	< 400

European Wind Atlas. Copyright © 1989 by Risø National Laboratory, Roskilde, Denmark.

The new built-in load control unit inside the wind turbine reads the battery voltage in real-time. When this voltage corresponds to the maximum battery charge voltage, the charging current is cut off.

This technique can charge any battery in the safest possible way. It makes it easier to connect the wind turbine to the solar system. All that you need to do is to connect it directly to the battery pack without going through the solar regulator. When the battery is fully charged, Terrestrial Éole 300 will slow down until it switches off almost completely. It will start running again automatically as soon as the battery voltage lowers again.
Advantage: extended battery life. No overloading!

8.80 M FULL MAST

Sturdy, innovative fastening. Complete system which does not require any concrete base, winching, brackets, or transport. It includes 6 light, sturdy galvanized tubes, cables and accessories (fixed to the ground at the tip, nails etc).

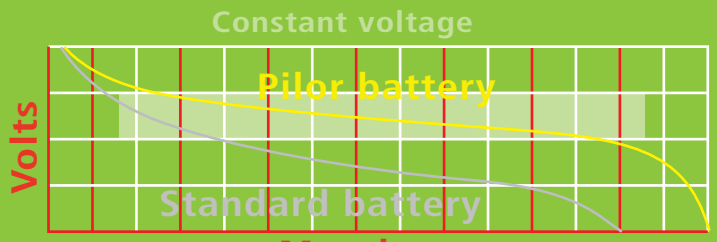
- **Quick installation: 1 hour 30 minutes - 2 people**
- Packaging dimensions: 188 cm, weight: 36.3 kg
- Designed to resist 177 km/h (110 mph) winds

Ref. **627.300**

Dry Battery 9 V

Our 9V batteries are based on "very high return" ZINC-AIR technology. Much more high-performance than traditional saline batteries, its power curve is perfectly adapted to modern, powerful energizers. It is furthermore completely compatible with the "ACCU-PROTECT" devices and thus provides a strong increase in the duration of use on this type of energizer! This battery is even compatible with a 2 W solar panel (but not with a more powerful device) to further increase the duration of its operation.

They are also very environment-friendly and do not contain lead, cadmium or mercury. But don't forget to return your used battery to your retailer, who is the starting point for the battery recycling process.



9 V / 55 Ah
Ref. **623.000**

9 V / 90 Ah
Ref. **623.200**

9 V / 130 Ah
Ref. **623.300**

9V / 160 Ah
Ref. **623.600**

Dry Cell 6 V

6V / PP8 / 2
Ref. **623.800**

6V / PJ996
Ref. **623.900**

D-Cell Batteries
Ref. **623.004** pk 2

Batteries 12 V

30 Ah Compact Power

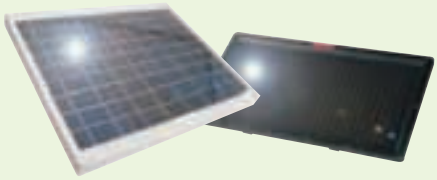
Supplied with acid in a seperate pack.

Suitable for use with compact energisers, Clos 20, 30 & 40.

Can be delivered by courier.

Ref. **621.400**

- **100% solar panel compatible**



85 Ah Deep Cycle Wet Battery

Lead acid filled with thick plates, provides a slow discharge rate without any degradation.

Delivery on pallets only.

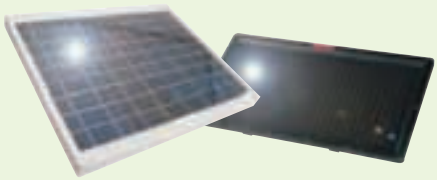
Ref. **621.000**

85 Ah Sealed for Life

As above but can be delivered by courier.

Ref. **621.100**

- **100% solar panel compatible**



The choice of conductor

3 qualities essential for a conductor.

Visibility

When an animal touches the conductor and receives an electric shock, it immediately associates the shock with the wire or tape that it has just touched. Increased visibility improves the chances that the wire will be recognized by the animal, resulting in more effective perimeter fencing.

Conductivity

The effect on the animal is crucial and the intensity of the shock serves as the major deterrent factor with regard to the fencing.
The animal must develop a respect for the conductor so that it is not tempted to check whether the current is present or not.
This is why for the most part we use copper, **which is the best conveyor of energy,** aluminium and steel with large diameters only.

Visibility + Conductivity ↓ Deterrent value

Resistance to corrosion and handling

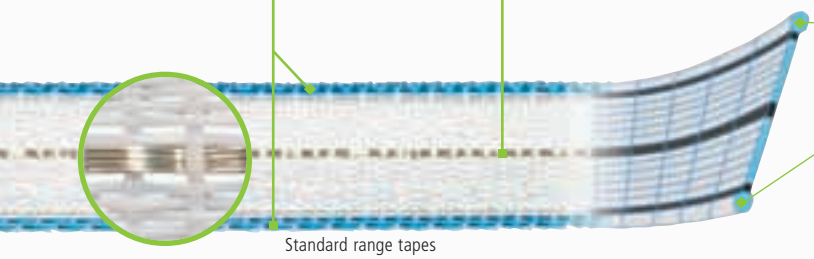
Copper coated in tin and galvanized steel ensure resistance to corrosion.
The quality of manufacture in conjunction with the number of plastic wires and their arrangement in the conductor must result in increased resistance to mechanical stress and repeated handling.

some technical elements

Protective conductors

Clustered conductors

Permanent re-electrification



Standard range tapes

Reinforced edges

Anti-tearing properties

QUALITY
French manufacture
Carefully selected materials

"For" Performance range wire
ULTRA RICH galvanized steel
Ø 0,50 mm
80 contacts per meter
Permanent re-electrification

"High Conductivity" range wire
Tinned Copper
Ø 0,25 mm
HIGH EFFICIENCY

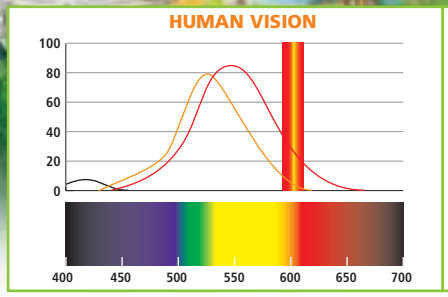
■ Electrifiable distance:

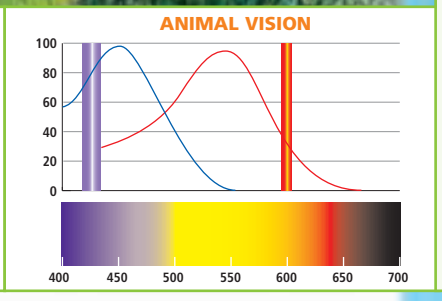
the electrifiable distances are indicated for three types of energizers: 300 mJ (standard dry cell battery device), 1,000 mJ (wet cell battery device) and 6,000 mJ (mains device). For these distances, the energy "available" for the animal is less than 100 mJ. The distances have been determined for optimal conditions that rarely occur in reality: good earth connection, perfect insulation and absence of vegetation. They can easily be divided by a factor of 10 if electrical leakage occurs or if the earth connection is faulty. Taking into account the safety coefficient of 1/10th, you can check that the conductor that you intend to purchase is suitable for your enclosure and your energizer. For comparison, here are the characteristics of a 3-wire stainless steel conductor with large diameter (0.30mm):

0.3 J	1 J	6 J
0.9 km	2.7 km	3.1 km

2

conductors and accessories





BLUE, THE MOST VISIBLE COLOUR FOR ANIMALS!

According to a recent study conducted in France (Museum of natural history) and the United States, a comparison was made between human and animal vision.
Humans judge colours on the basis of three criteria: brightness, tone and saturation. Animals have dichromatic vision, distinguishing objects according to brightness and a colour attribute.

With regard to the "tone" of the best perceived colours (see the 2 graphs opposite), human beings perform particularly well with a combination of three colours or wave ranges (blue-violet, green-yellow and red-orange), whereas animal vision combines two wave ranges (blue-violet and green-yellow). **Animal vision is better than human vision in the blues, violets and ultraviolets.**

range Megablue/Megawhite

Megablue

Ref. **631.700** (250 m)
Ref. **631.900** (500 m)
Ref. **632.000** (1,000 m)

Megawhite

Ref. **632.500** (200 m)
Ref. **632.600** (400 m)
Ref. **632.700** (1,000 m)

Orange 3 strand S/S

Ref. **400.002** (250 m)
Ref. **400.003** (500 m)

White 6 strand S/S

Ref. **400.105** (200 m)
Ref. **400.106** (500 m)

The "Mega" Performance range has been produced and developed by LACMÉ for many years. These products are manufactured using carefully selected materials and a unique manufacturing process that places the conductor filaments at the periphery of the wire **for greater efficiency.**

The ⊕s

Permanent re-electrification.
Steel galvanized at 120g/m².
80 contacts per meter.
Reliability.
Particularly suitable for semi-permanent fencing and mains energizers.

Product	Conductors*		
	stainless steel	tinned copper	rich galvanized steel
Megablue			2 x Ø 0.50 mm
Megawhite			2 x Ø 0,50 mm
Extrablue 9	6 x Ø 0.20 mm	3 x Ø 0.25 mm	
Extrablue	4 x Ø 0.20 mm	2 x Ø 0.25 mm	
Superblue	2 x Ø 0.20 mm	1 x Ø 0.25 mm	

range High Conductivity

The high conductivity range is manufactured according to a traditional process that has been tried and tested. Our optimum adjustments and specially adapted compositions ensure that these are products of great quality.

The ⊕s

Exceptional conductivity.
Effectiveness over very long distances.
Particularly suitable for mobile fencing and dry cell or wet cell energizers.

Extrablue 9

Ref. **631.300** (500 m)

Extrablue

Ref. **631.200** (250 m)
Ref. **631.400** (500 m)
Ref. **631.100** (1,000 m)

Superblue

Ref. **631.500** (200 m)
Ref. **631.600** (400 m)

Electrifiable length during optimum conditions of use	Conductivity (mho.m)	Visibility	Use			Energizer		
			subdivision	semi-mobile	permanent	dry cell battery	wet cell battery	mains
0.3 J 1 J 6 J → 10 km 33 km 37 km	3	★★★★					●	●
0.3 J 1 J 6 J → 10 km 33 km 37 km	3	★★					●	●
0.3 J 1 J 6 J → 28 km 84 km 102 km	8.33	★★★★★★				●	●	●
0.3 J 1 J 6 J → 16 km 49 km 60 km	5.26	★★★★★★				●	●	●
0.3 J 1 J 6 J → 9 km 29 km 33 km	2.63	★★				●	●	

* Compositions may be modified without prior notice.

range **Reinforced Maxitape**

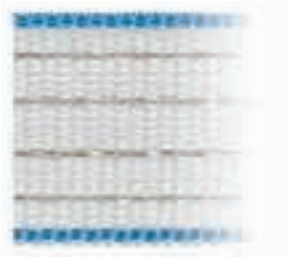
10 / 20 / 40

Brown Maxitape
20mm
Ref. **637.000** (200 m)
40mm
Ref. **637.400** (200 m)

Green Maxitape
20mm
Ref. **637.200** (200 m)
40mm
Ref. **637.500** (200 m)

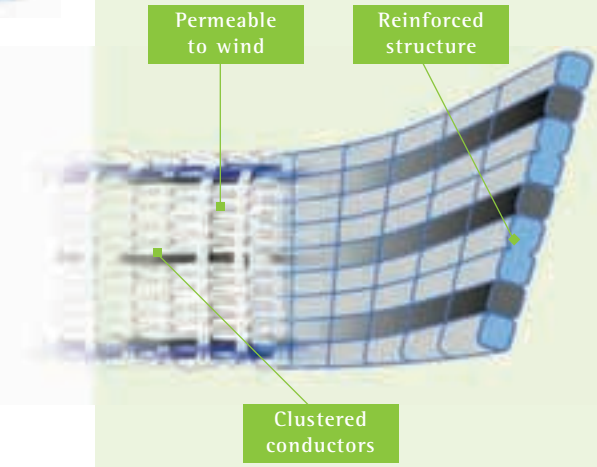
White Maxitape
10mm
Ref. **636.000** (200 m)
20mm
Ref. **636.100** (200 m)
40mm
Ref. **636.300** (200 m)

The "REINFORCED MAXITAPE" range is made up of tapes with oversized wires. The plastic section chain has been doubled in relation to the **"MEGA"** range and the conductor section has been extended by 50%. Specially designed for extreme conditions: **violent winds, abundant vegetation, large enclosures, etc.**
These tapes are recommended for their aesthetically pleasing effect and provide particularly strong enclosures.
Note: the 40 mm reinforced Rublanc can also be used to pen snails.



3 colours: brown / green / white

The ⊕s



Standard Polytape

White Polytape
12mm
Ref. **634.100** (200 m)
20mm
Ref. **634.200** (200 m)
40mm
Ref. **634.300** (200 m)

Green Polytape
12mm
Ref. **400.498** (200 m)
20mm
Ref. **400.496** (200 m)
40mm
Ref. **400.494** (200 m)

Electrifiable Distances

0.3J	1J	6J
0.5Km	**1.5Km**	**1.75Km**
0.6Km	**1.8Km**	**2.1Km**
0.8Km	**2.4Km**	**2.8Km**

Product	Lengths available	
Maxitape 10mm	200 m	
Megablue 12mm	200 m / 400 m	
Maxitape 20mm	200 m	
Megatape 20mm	200 m / 500 m	
Maxitape 40mm	200 m	
Megatape 40mm	200 m	

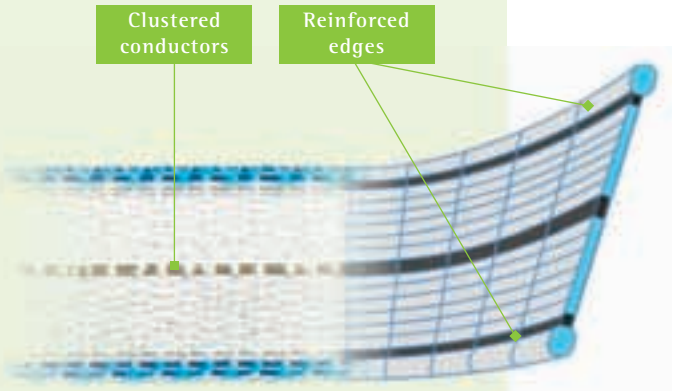
range Megatapes

The **"MEGA"** tapes are 100 times more conductive that traditional stainless steel tapes thanks to their large copper alloy conductors (tin plating > 0.9 µm). **Reinforced edges** provide them with excellent mechanical performances (reduced wear in the insulator, less elongation when subject to wind).
Exclusive grouping of conductor monofilaments increases resistance to sparks and guarantees immediate re-electrification in the event of a power cut. Use only with suitable insulators blocking the tape (e.g. IRUBLOC, IRUVIS, IRULOCK, etc.).

Megablue 12
Ref. **635.400** (200 m)
Ref. **635.500** (400 m)

Megatape 20
Ref. **635.600** (200 m)
Ref. **635.700** (500 m)

The ⊕s



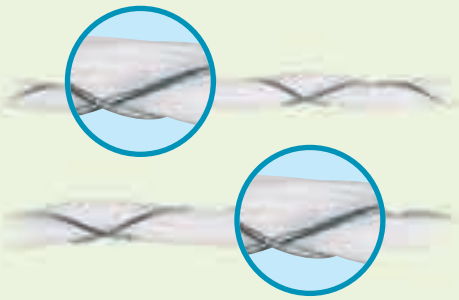
Megatape 40
Ref. **635.900** (200 m)

Colours available	Tinned copper conductors*	Stainless Steel conductors*	Electrifiable length during optimum conditions of use	Conductivity (mho.m)	Reinforced edges	Reinforced structure
White	1 x Ø 0.30 mm	2 x Ø 0.30 mm	0,3 J 1 J 6 J → 36 km 112 km 130 km	12		●
Blue	2 x Ø 0.25 mm	3 x Ø 0.25 mm	0,3 J 1 J 6 J → 42 km 126 km 155 km	13	●	
White/Brown/Green	3 x Ø 0.30 mm	4 x Ø 0.30 mm	0,3 J 1 J 6 J → 88 km 263 km 321 km	27		●
White	2 x Ø 0.25 mm	4 x Ø 0.25 mm	0,3 J 1 J 6 J → 46 km 140 km 170 km	15	●	
White/Brown/Green	4 x Ø 0.30 mm	6 x Ø 0.30 mm	0,3 J 1 J 6 J → 125 km 380 km 460 km	39		●
White	2 x Ø 0.25 mm	8 x Ø 0.25 mm	0,3 J 1 J 6 J → 82 km 246 km 301 km	25	●	

* Compositions may be modified without prior notice.

Megarope

These unique cords are particularly appreciated for their high visibility, robustness, effectiveness and total reliability resulting thanks to permanent re-electrification. Ideal **for reinforcing the visibility of Forceflex systems.** The oversized XL model will prove a delight for horse breeders.



Megarope
Ref. **638.400** (200 m)
Ref. **638.500** (500 m)

Megarope XL
Ref. **638.700** (200 m)

Megaboost

Ref. **638.100** (200 m)

High visibility / high conductivity cord.
Its composition makes it suitable for all uses at all times.

Don't forget!

Ø 9 mm cord link
Ref. **666.102**

Cord clip
Ref. **676.402**

Don't forget our clips on page 40 and attach your cords safely.

Product	Lengths available	Conductors*			
		tinned copper	rich galvanized steel	Stainless steel	
Megarope	200 m / 500 m		2 x Ø 0.50 mm		
Megarope XL	200 m		2 x Ø 0.50 mm		
Megaboost	200 m	6 x Ø 0.25			
Carbone tensile	200 m	1 x Ø 0.25 mm		2 x Ø 0.25 mm	
Tressofil	400 m			3 x Ø 0.25 mm	
Parcel 15	400 m			15 x Ø 0.16 mm	

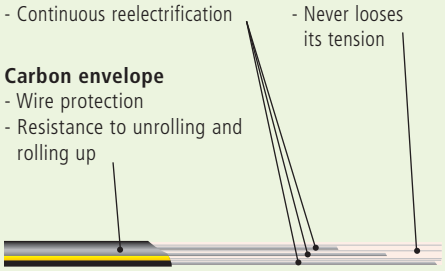
range Subdivision fencing

Ideal wire for intensive subdivision fencing. Flexible and smooth, it does not snag in the insulators and can be rolled up/unrolled easily.

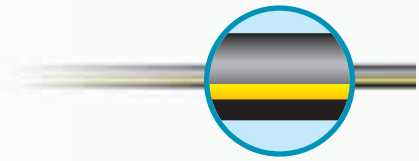
3 Ø0.25 mm wires
- High conductivity copper
- Continuous reelectrification

Glass fibre
- Strong
- Never looses its tension

Carbon envelope
- Wire protection
- Resistance to unrolling and rolling up

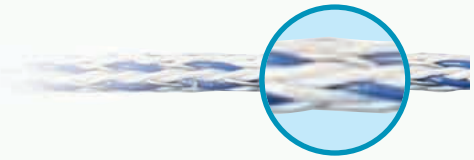


Carbone Tensile
Ref. **638.800** (200 m)



Tressofil
Ref. **630.400** (400 m)

Braided wire, perfect for subdivision fencing use. No risk of snagging in the insulators: all the strands remain joined to each other.
Thick steel wires



Parcel 15
Ref. **630.700** (400 m)

Wire designed and optimised for intensive subdivision fencing. The fifteen stainless steel conductors and consolidated plastic support provide the wire with exceptional resistance to repeated handling (winding/unwinding/movement/etc.)
Especially suitable for short distances.

Electrifiable length during optimum conditions of use	Conductivity (mho.m)	Visibility	Use			Energizer		
			subdivision	semi-mobile	permanent	dry cell battery	wet cell battery	mains
0,3 J 1 J 6 J → 10 km 33 km 37 km	3	★★★★★ ★★★	●●	●●●●●●●●	●●●●●●●●		●	●
0,3 J 1 J 6 J → 10 km 33 km 37 km	3	★★★★★ ★★★★★	●●	●●●●●●●●	●●●●●●●●●●		●	●
0,3 J 1 J 6 J → 46 km 140 km 170 km	15	★★★★★ ★★★★★	●●●	●●●●●●●●	●●●●●●●●●●	●	●	●
0,3 J 1 J 6 J → 10 km 33 km 37 km	3	★★★	●●●●●●●●●	●●●●●●●●	●●	●	●	●
0,3 J 1 J 6 J → 0,70 km 2 km 3 km	0,22	★★★	●●●●●●●●●	●●●●●●●●	●●		●	●
0,3 J 1 J 6 J → 1,30 km 4 km 4,50 km	0,39	★★★	●●●●●●●●●	●●●●●●●●	●●		●	●

* Compositions may be modified without prior notice.

Forceflex

Aluminium alloy wire, available with diameters of 1.8, 2 and 2.5 mm. The Ø 0.25 mm is recommended for permanent perimeter fencing. The other diameters can be used for fixed subdivisions.

The Forceflex ⊕s

Flexibility
The Forceflex wire is much more practical and easier to install than steel wire thanks to its lightness, flexibility and presentation on the spool. You won't need any tools to install your fence!

Power
The Forceflex wire is probably the world's most conductive wire for fences! Using a wet cell battery device with a solar panel thus becomes possible, even over long distances.

Safety
The Forceflex wire requires little mechanical tension during installation. You can finally install your fence in complete safety!

Visibility
The Forceflex wire possesses an incomparable brilliance and shine. It is totally effective at night and starts to sparkle as soon as the moon comes out!

Longevity
The Forceflex wire doesn't rust. If you want to increase the Forceflex service life even further, follow the instructions for installation and don't mix the metals.

Forceflex 25
Ref. **633.800** (400 m)

6J → 900 km

Forceflex 20
Ref. **634.000** (400 m)

6J → 691 km

Forceflex 18
Ref. **633.700** (400 m)

6J → 550 km

Forceflex Junction
Ref. **669.102** (blister/2)

Advice:
The maximum tension to apply to a Forceflex wire is 18 kg for the Ø1.8 mm wire, 23 kg for the Ø2 mm wire and 30 kg for the Ø2.5 mm wire. Any excessive tension impacts negatively on the correct operation and service life of the wire.
Use aluminium-based accessories to secure junctions and make sure that you always tighten them firmly. The only metal elements that may be brought into contact with the Forceflex wire are the Fisalu, the Forceflex junction and the Forceflex spring.
Always use the Ief insulator to start and finish a fence or to install a gateway barrier. The "Ief" preserves the wire thanks to its carefully designed form with rounded angles. Always use line insulators that allow the wire to pass freely.

Forceflex spring
Ref. **670.200**

Fisalu
Ref. **664.402**

Isobaralu
Ref. **658.602**

Securgal High Tensile

Hi-tensile steel wire.
Special Zn/Al coating
for the Sécurgal Pro.
Rich galvanisation for the
"standard".

The Securgal (+)s

Longevity
Maximum resistance to corrosion, even in very harsh environments as a result of exceptional galvanization.

Resistance to shocks
Wire optimised for use in permanent electric fences thanks to a significant elastic limit. The wire can thus be extended on the ground under an unexpected load and resume its initial position once the load has been removed.

Robustness
Sécurgal is hyper-resistant to pressure exerted by animals. This means that, in the case of sheep, contact penetrates through thick wool and thus transmits the full force of the shock to the animal.

Expandability
Sécurgal is very resistant to variations in temperature.

Securgal 25 Pro (Zn/Al)
Ref. **633.000**
6J → 380 km

Securgal 25
Ref. **633.100**
6J → 380 km

Securgal 18
Ref. **633.500**
6J → 190 km

Galva junction
Ref. **666.900** (bulk/10)

Securgal Wire Dispenser
Ref. **647.000**

Galva spring
Ref. **670.500**

Tip:
A reasonable mechanical tension (60 to 90 kg depending on the diameters) is sufficient to ensure that the wire remains horizontal, that the aesthetic effect is preserved and that any distensions due to variations in temperature are compensated for. Beyond this, the structure (posts and insulators) is forced over its capacity and the effectiveness of the fence is compromised.

Stranded Steel

Galvanized steel cable highly resistant to breakage. S/Z 3+9 torsion system for improved flexibility.
1.7mm x 7 strand supple steel for improved handling.

200 m steel cable
Ref. **400.011**
6J → 40 km

400 m steel cable
Ref. **400.013**
6J → 40 km

Wires/cords

Crocodile Clips on Lead Set
Ref. **400.094**

Crocodile Clips only
Red Ref. **400.095** (pack of 2)
Green Ref. **400.097** (pack of 2)
Red / Green Ref. **400.098** (pack of 2)

Rope Joiner
Clips for cords up to 5.5 mm wide. Anti-spark guarantee. Can be used as a mechanical fuse to avoid injury to horses.

Ref. **676.402** (blister pack of 5)

Link 20/25
Robust, easily installed clips for smooth wire from Ø2 to 2.5 mm (20/25) or from Ø1.6 to 2 mm (16/20).

Ref. **676.102** (blister pack of 5)

Ø5 mm wire link
Links to be squeezed carefully with pliers for perfect contact. Eliminates any risk of sparks.

Ref. **666.202** ((blister pack of 10)

Ø9 mm cord link
Links to be squeezed carefully with pliers for perfect contact. Eliminates any risk of sparks.

Ref. **666.102** (blister pack of 5)

Galva junction
100% Ségurcal compatible. For interline or power supply junctions. **Isobar compatible.**

Ref. **666.900** (pack of 4)

High voltage outlet anchor
Delivered with a Ø5mm link and a thimble.

Ref. **667.402** (blister pack of 1)

Intergalva connection
Electric connection between two rows of galvanized wires or two isobars.

Ref. **669.202** (blister pack of 1)

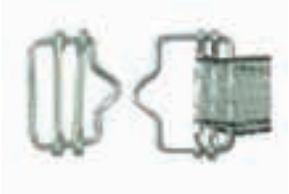
Forceflex junction
100% Forceflex compatible. For interline or power supply junctions. **Isobaralu/Isobar compatible.**

Ref. **669.102** (blister pack of 2)

10-12 mm tapes

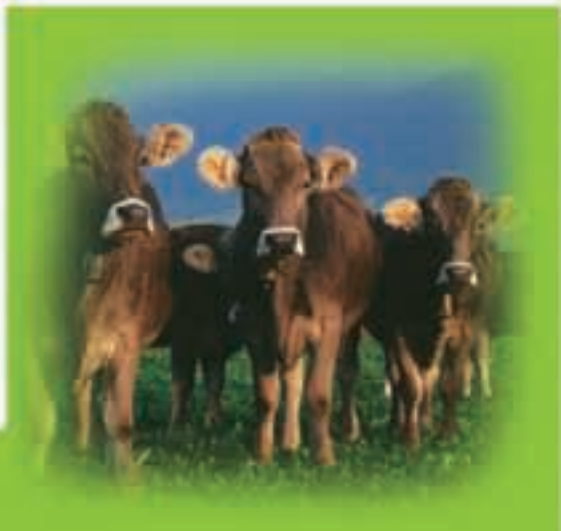
10-12 mm tape link
Link to be squeezed carefully with pliers for perfect contact. Does not reduce the resistance of the tape. **STAINLESS STEEL.**

Ref. **666.402** (blister pack of 10)



Tape Buckles
20mm tape
Ref. **400.020** (blister pack of 5)

40mm tape
Ref. **400.040** (blister pack of 5)



20 mm tapes

20 mm standard tape clip
Clips with large contact surface.
Light and discrete.

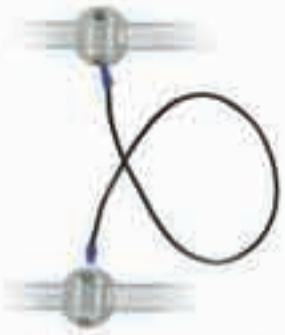
Ref. **676.502** (blister pack of 4)

20 mm tape clip
Perfect electrical contact. Used to retighten the tape. Can be used as a mechanical fuse to prevent injury to horses.

Ref. **666.502** (blister pack of 2)

Universal High Voltage outlet
Used to provide power directly to the tape from the energizer or via a circuit-breaker. Delivered with a Ø5 mm link and a lug.

Ref. **667.502** (blister pack of 1)



20 mm universal contact
To link the two heights of the tape. Creates a link with perfect contact over the entire surface of the tape.

Ref. **669.402** (blister pack of 1)

40 mm tapes

40 mm standard tape clip
Clips with large contact surface
Light and discrete.

Ref. **676.602** 602 (blister pack of 4)

40 mm tape clip
Perfect electrical connection. Used to retighten the tape. Can be used as mechanical fuse to prevent injury to horses.

Ref. **666.702** (blister pack of 1)

40 mm tape high voltage outlet
Used to provide power directly to the tape from the energizer or via a circuit-breaker. Delivered with a Ø5 mm link and a lug.

Ref. **667.302** (blister pack of 1)

40 mm intertape connector
Used to link two tape levels. Creates a link over the entire surface of the tape with perfect contact.

Ref. **669.602** (blister pack of 1)

Tape ends

Tape end with snap hook
Suitable for isobar or any gate handle. Perfect contact.

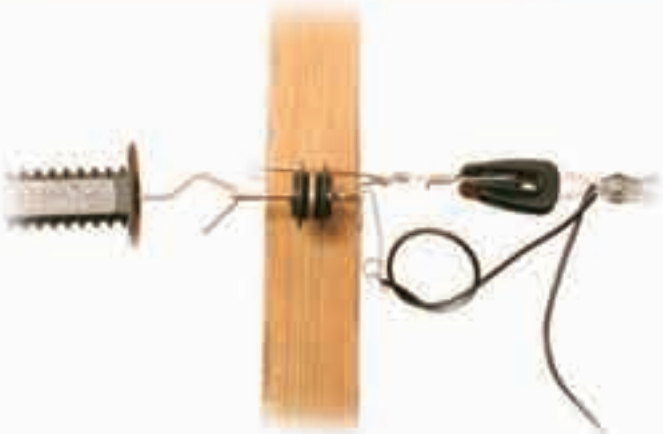
Ref. **666.802** (blister pack of 1)

Gateway barriers

Standard tape end
Suitable for isobar or any gate handle.

Ref. **676.702** (blister pack of 2)

Examples of use

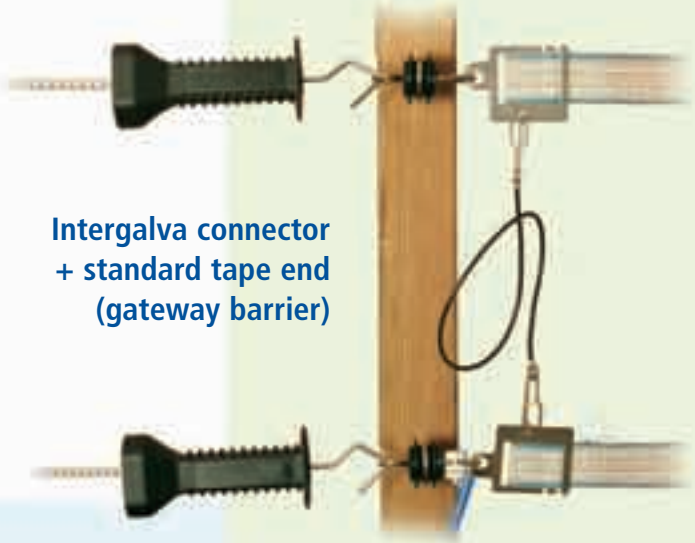


High voltage outlet anchor (gateway barrier)

Forceflex junction
(power supply)

Tape end with Snap Hook
(gateway barrier)

Clips and connectors



Intergalva connector
+ standard tape end
(gateway barrier)

Galva junction (gateway barrier)

Installation of Fisol on Stoplock
(gateway barrier)

Fisol and Fisalu

Fisalu 25 m
Ref. **664.402** (25 m)

Fisol and Fisalu
Used to connect two distant points safely on an electric fence. The reinforced insulating layer (Voltage test at 20,000 volts) is specially designed to cater for high voltages on electric fences and to resist mechanical stress. Fisol and Fisalu facilitate conduction of powerful currents without leakage, even over long distances, and support the use of a mains energizer even when the energizer is far from the installation. Fisol and Fisalu can be installed underground and even under water.

Single insulated lead out cable
L/O 50 m
Ref. **401.005** (50 m)

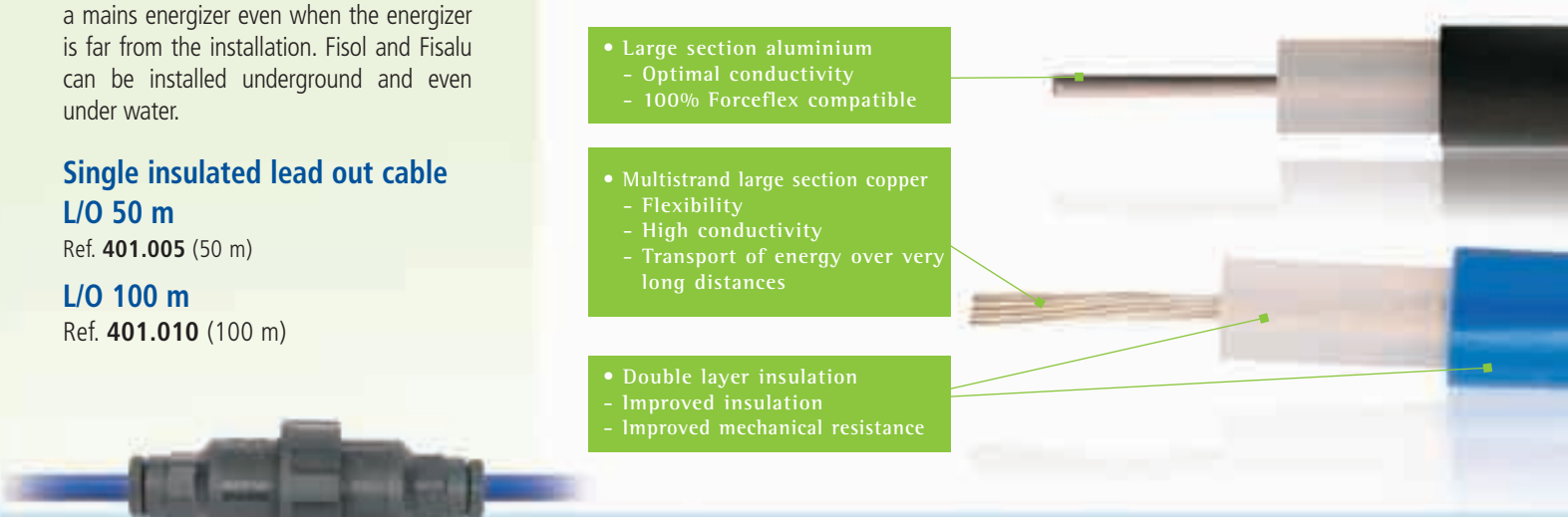
L/O 100 m
Ref. **401.010** (100 m)

Fisol 25 m
Ref. **664.102** (25 m)

Fisol 50 m
Ref. **664.702** (50 m)

Fisol 100 m
Ref. **664.202** (100 m)

- Large section aluminium
  - Optimal conductivity
  - 100% Forceflex compatible
- Multistrand large section copper
  - Flexibility
  - High conductivity
  - Transport of energy over very long distances
- Double layer insulation
  - Improved insulation
  - Improved mechanical resistance



Fisol or Fisalu junction
Waterproof junction that can be placed underground but not submerged.
Ref. **666.002**

FISOL and FISALU conduct energy from the energizer to the fence safely and **WITHOUT LEAKAGE.** For dwellings, underground passages, overhead lines, etc.

FISOL and FISALU ensure the continuity of the circuit when the gate is open. Ideal for lines passing through concrete pipes and ditches.

The Choice of Insulator

2 qualities essential for an insulator.

1

The insulator

Modern energizers produce increasingly powerful pulses requiring suitable, modern insulators. The quality of the plastic and the shape of the insulator are two determining factors for effective insulators. Good ultra-violet protection enables the insulator to preserve its insulating properties for longer.

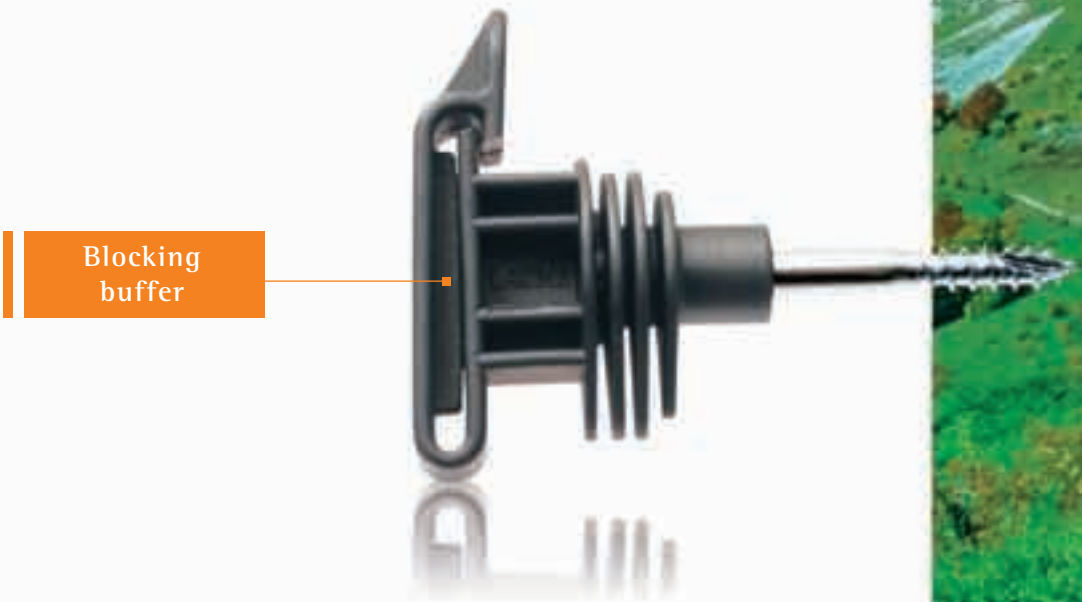
2

2 Protection of the conductor

The opening for the wire in the insulator must in no way cramp the wire. All edges must be rounded to ensure that the conductor does not rub against the insulator as a result of wind and frequent movement and thus prematurely erode the conductor.

Tape insulators must completely block the tape. At the worst the tape is completely free within the insulator. If the tape "rubs" within the insulator without being completely blocked, the insulator will suffer premature damage.

The majority of problems encountered on conductors are a result of badly designed insulators.



■ HPX Technology

The majority of our screw insulators are equipped with HPX technology to ensure ease of perforation and screwing.

3

The insulators

Iva

Insulator for wires, cords and tapes up to 12 mm wide. Ring reinforced against shocks. Rounded edges to protect the conductors. HPX technology screws for easy screwing. **Quality without compromise!**

Ref. **650.502** (packet of 25)
Ref. **650.506** (bucket of 100)
Ref. **650.528** (bucket of 220)

All buckets include **FREE** Speediso chuck fitting

Isoline

New generation line insulator for wires and cords. **10-year guarantee.** Unique rounded shape providing exceptional insulation and shock absorption. Particularly suitable for permanent fencing thanks to its specific opening that facilitates insertion and removal of FORCEFLEX and SECURGAL smooth wires **wires without requiring disassembly.**

Ref. **653.002** (packet of 25)

Isoline Protensile

Ref. **653.106**
(bucket of 90)

Iso

Isoclip-screw

Insulator for cords up to 8 mm and tapes up to 20 mm wide. Easy insertion so that conductors are not bent out of shape. HPX technology screw.

Ref. **657.402** (packet of 25)

Isocorde

Insulator for cords up to 8 mm and tapes up to 20 mm wide. Ultra reinforced, **5-year guarantee.** Long duration anodized screw.

Ref. **651.002** (packet of 25)

Standard Woodscrew

Insulator for wires and tapes up to 10 mm wide. Ø6mm screw.

Ref. **650.401** (blister of 25)
Ref. **650.406** (bucket of 100)

Small Nail-on

Ref. **410.235** (packet of 50)
Ref. **144.050** (packet of 100)

Staple

Ref. **144.100** (packet of 100)

Iruvis

Clip insulator for tapes up to 40 mm wide. The precision blocking buffer protects the tapes by blocking them. Can be used for wires during repairs. It is possible to insert the tape without crumpling it once the line has been tightened.
HPX technology for easy screwing.
A BEST SELLER!
Ref. **657.002** (packet of 25)
Ref. **657.006** (bucket of 100)

Irulock

The must-buy insulator for tapes up to 40 mm wide. Perfect blocking of the conductor thanks to the two ultra-powerful butterfly screws. Can be used for both straight lines and corners. Using it together with **PASSLOCK** ensures perfect, aesthetically pleasing professional fences.
5-year guarantee.

Irulock
Ref. **657.902** (packet of 2)

Passlock Kit
Ref. **657.802** (5 irulocks + 15 passlocks)

Passlock

Nail-on

Irustac
Nail-on version of the Iruvis. Holds tape in a clip, and can also be used for wire. Supplied with nails.
Ref. **655.802** (packet of 25)

Universal
Nail or screw on multi-use insulator, supplied without nails.
Ref. **400.090** (packet of 25)

Irufix
Insulator for 40 mm tape. Rubber buffer provides ideal blocking. Easy and rapid to install.
Ref. **657.002** (packet of 25)
Ref. **404.213** (packet of 4)

Speediso

End fitting for rapid screwing of screw insulators. Suitable for all drills and screwing machines. Body in polycarbonate for more robustness, hexagonal anti-rotation stem. Compatible with IVA, IVO, IRUVIS, ISOBLOC, etc. and with the majority of screw insulators available on the market.

Ref. **670.102**

Ivabloc

New anti-slide anti-rotation system.

New!

Insulator for wires, cords and tapes up to 12 mm wide. Large diameter ring to allow for movement of knots and connections when the conductor changes position. Suitable for posts with diameters of 8 to 14 mm. The insulator can also be nailed to a wooden post.

Ref. **655.102** (packet of 25)

Patented system for insertion of the insulator onto the post by clipping.

Isobloc

Insulator for wires and cords up to 6 mm wide. Powerful and ergonomic tightening ring. Suitable on posts with a diameter from 8 to 14 mm. The insulator can also be nailed to a wooden post.

Ref. **655.402** (packet of 25)

Irubloc

Insulator for tapes up to 40 mm wide. Clip and precision blocking buffer to protect the tape. Suitable for posts with diameters of 8 to 14 mm. The insulator can also be nailed to a wooden post.

Ref. **655.502** (packet of 25)

Irutige / Ivatige

Bolt-on Iruvis (Irutige) and bolt-on Iva (Ivatige) to insulate tape, rope or wire on metal posts.

Irutige

Ref. **657.102** (packet of 25)

Ivatige

Ref. **657.102** (packet of 25)

Iva-EC

- 45cm extended insulator
- Fits directly to existing fences or netting
- Keeps animals away from barbed wire
- Excellent separator

Ref. **650.602** (packet of 10)

Ivo Lon

Separator insulator (18cm) for wires, cords and tapes up to 10 mm wide. **5-year guarantee.** Ultra-robust. Long duration anodized screw.

TO SPECIAL ORDER ONLY

Annulaire Lon

Separator insulator (21 cm) for wires and tapes up to 10 mm wide.

Ref. **650.302** (packet of 10)

Isocorde Lon

Separator insulator (18 cm) for cords up to 8 mm and tapes up to 20 mm wide. Ultra-reinforced, **5-year guarantee.** Long duration anodized screw.

Ref. **650.102** (packet of 10)

Iruforce Lon

Separator insulator (20 cm) for 40 mm tape. **5-year guarantee.** Large staggered joints to support the conductor. Fits easily into the hand for easy and powerful screwing. Long duration anodized screw.

TO SPECIAL ORDER ONLY

Irulon

Clip separator insulator (12 cm) for tapes up to 40 mm wide. The precision blocking buffer protects the tape by blocking it. The tape can be inserted without crumpling once the line has been tightened. Delivered with fastening nails.

Ref. **655.702** (packet of 15)

Iruvis Lon

Clip separator insulator (20 cm) for tapes up to 40 mm wide. Its precision blocking buffer protects the tape by blocking it. The tape can be inserted without crumpling once the line has been tightened.

Ref. **657.202** (packet of 10)

Ief

Ref. **652.302**
(packet of 10)

Ief
Line start/corner/end insulator for wires, cords and tapes up to 12 mm wide. Designed for optimal insulation.

Ref. **652.402**
(packet of 10)

Ief Super
Line start/corner/end insulator for SECURGAL high tensile wire. Its composite base composition provides it with exceptional resistance.

Isobar

Isobar Super
Special gateway barrier insulator. Designed to ensure electrical continuity between the fence wire and the barrier system. The pack of 2 is delivered with two anti-spark eyelets.

Ref. **658.702** (packet of 2)

Isobar Classic
Special gateway barrier insulator.

Ref. **658.802** (packet of 4)

Isobar Alu
Secially designed for FORCEFLEX systems.

Ref. **658.602** (packet of 2)

Isobar Multi
Special multiple gateway barrier insulator.
Compatible with galvanized and Forceflex junctions.

Ref. **658.402** (packet of 2)

Stoplock

Stoplock
Insulator for tapes from 20 mm to 40 mm wide. Ideal for creating gateway barriers, line starts/ends, subdivisions.
5-year guarantee.

Ref. **653.702** (packet of 2)

Iruangle
Line start/corner/end insulator-tensioner for tapes from 20 to 40 mm wide. Third anti-tear fastening screw. Easy tightening of the tape to produce aesthetically pleasing fences.

Ref. **653.902** (packet of 2)

Bobbin
Line or corner insulator to be nailed onto a wooden post. Delivered with the mounting nails.

Ref. **652.102** (packet of 25)

Handles

Super Heavy Duty Handle

A must-buy gateway handle. Oversized to ensure perfect insulation, even in rainy weather. Internal mechanism with reinforced tensioner designed to provide resistance to frequent handling.

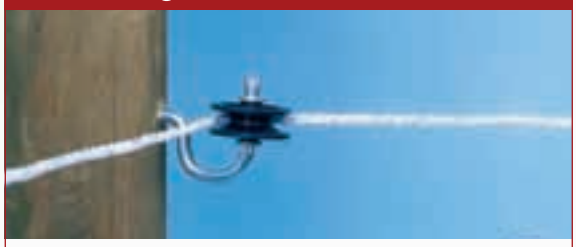
Ref. **665.300**

Horse gateway handle

Perfect for making a gateway barrier of 40 mm tape. Perfect insulation even in rainy weather. This handle is specially designed and robust.

Ref. **665.800**

Pulley



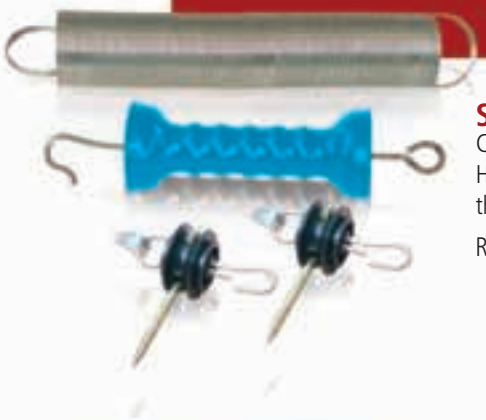
Woodscrew pulley for ends or corners
Ref. **410.730** (packet of 2)

Simple Gateway Handle

Economical but operational handle. Simple mechanism with traction spring.

Ref. **665.100**

Kits



Super Spring Gate Kit

Composition of the Kit: 1 Super Gateway Handle, 2 Isobars, 1 Lonressor. A top of the range Kit for excellent results.

Ref. **665.902**

Elastic Rope Gate Kit

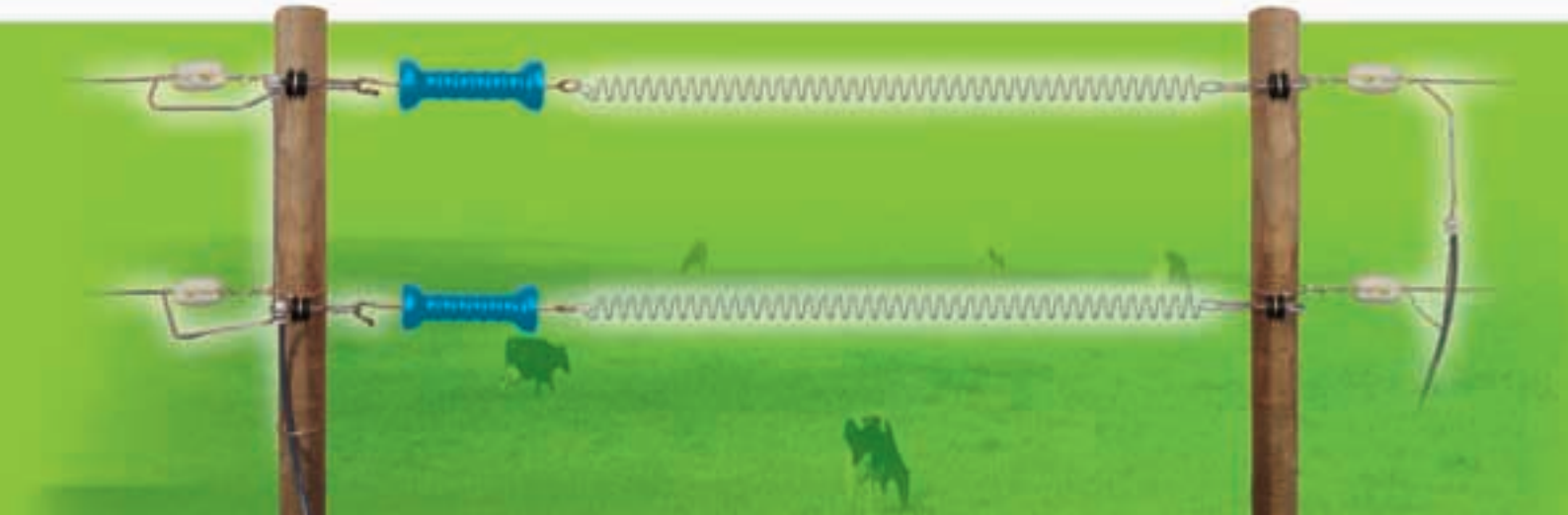
Used to produce ultra-visible safety gateway barriers for horsehair.

Ref. **665.402**

Gate Spring

Flexible spring for gateway barriers that extend up to 5m. Its non-extended length of 25 cm ensures that the installation is not earthed even if the handle is unhooked. Rich galvanization for a long service life. High visibility so that the installation can be checked, even at a distance.

Ref. **668.200**



- **Ideal for livestock transfers.**
- **Robust.**
- **Unlimited height and length adjustments.**

At last, a practical solution to access problems

1 - Visibility

The Taragate system™ is instantly perceived by the animals because of its high visibility.

2 - Smooth operation

The animal can sense immediately when the gateway is open. There is no fear of crushing: speedy transfer, smooth operation and security for animals and installation.

The Taragate™ system locks on easily and efficiently.

System for cattle

Taragate™ Cattle system is delivered with 15 m of tape.

Ref. **644.602**

System for sheep

Taragate™ Sheep system is delivered with 30 m of tape.

Ref. **644.702**

How to prolong your fence life

from 5 to 10 years!

Xtense +

- Xtense + prolongs your fence life by 5 to 10 years (reduced use of barbed wire).
- Extremely robust system, very clever in terms of value for money for the farm.
- Provides electricity in order to obtain an "electric current network" on the farm.
- The Xtense + (iso Xtense +, wire, etc.) can be reused on any old fence.
- The system fits into the existing structure: no posts to install!
- It is extremely simple to fit and quick to use.
- The Intelligent transition from barbed wire to permanent electric fencing.

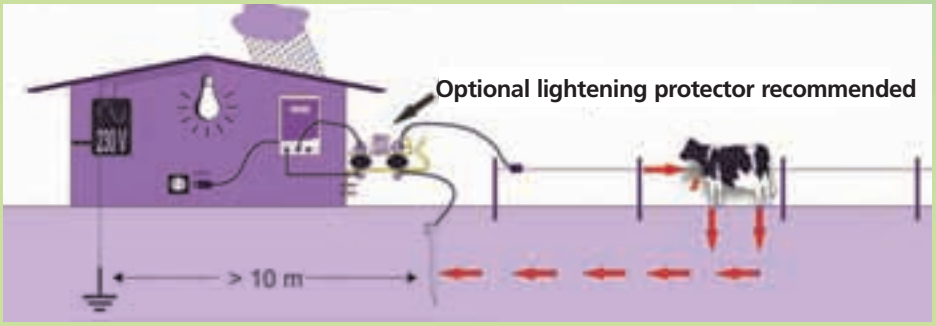
Composition of the system

1. Iso Xtense + (bag of 20 parts) - Ref.: 653.402
2. Securgal Wire 25 Pro (25 kg) - Ref.: 633.000
3. Ief Super (bag of 10 parts) - Ref.: 652.402
4. Roto-galvanised rod (bag of 6 parts) - Ref.: 668.602
5. Galvanised rod handle - Ref. : 670.300

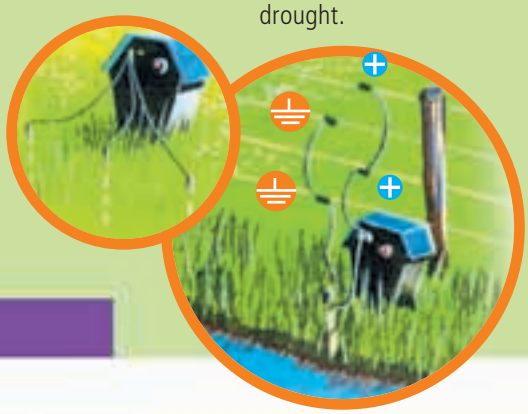
Choosing the earth connection

For maximum effectiveness

Installing the earth connection correctly



Place at least two 1m earth rods in the ground at a distance of approximately 2m from each other (d=2xh). Connect the two rods, if possible in the ground, then link them to the "Earth" terminal of the energizer. Use a good conducting wire, for example a large galvanised iron wire (2.5 mm_ in diameter). Moisten the soil during installation and during periods of drought.



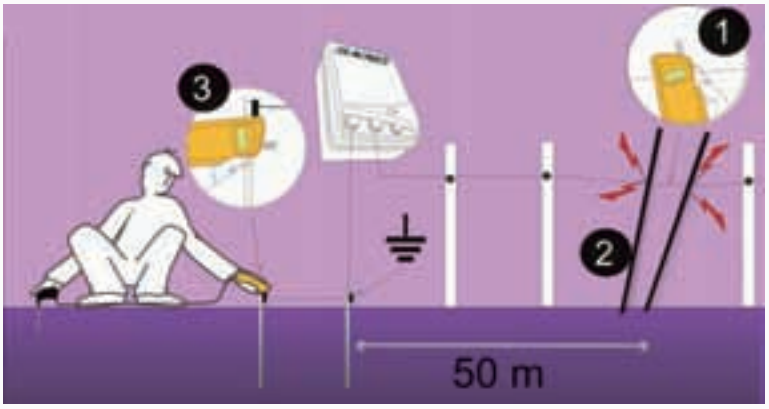
Advice

For delicate installations (long fence, very dry soil), increase the effectiveness of the earth connector to the maximum by:

- **increasing the number of earth connections.**
- **installing a neutral wire parallel to the electrified wire and linked to an earth connection every 100 meters.**

How do you test the earth connection of an energizer using a 12 kV joulemeter?

To carry out the test, start by checking that the voltage of the fence wire (1) is greater than 2,000 V at a point at least 50 m away from the earth connection. At this same point, cause a short-circuit by placing metallic rods against the fence wire in such a way that the voltage on the wire falls to 1,000 volts (2). Then measure the voltage for the final rod of the earth connection (3). If it exceeds 500 V, add earth rods or moisten the location. Repeat the test until a satisfactory value is obtained. The same test can be performed with a 10 kV controller.



4 The Essentials

The importance of checks:

During the installation of an electric fence some simple checks are necessary. Once the earth and fence wires have been connected to the energizer, you must to check that there is enough energy on the line. This is preferably performed using a joulemeter or, failing this, with a 10 kV controller (but in this case there is no way to quantify the energy) (= shock experienced by the animal). If there is no energy at the start of the line, the energizer is badly connected or the earth connection is faulty.

The quality of the earth connection can be checked by following the method explained on the previous page. Any improvement in the earth connection will increase the efficiency of the fence and will be measurable using the 12 kV joulemeter. It is recommended that you then check the quality of the installation (conductor, insulators, leakage) by measuring the energy at certain points on the line.

The Earth Connections

The earth connection is an important part of the circuit that ensures the correct return of pulses running through animals during contact with the wire.
If the earth connection (and the conductor) consume(s) little energy, more will remain to compensate for the leakage and to protect the animal.

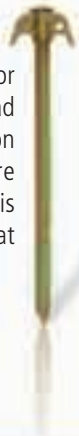
Hence the importance of a good earth connection (and a good conductor!). No matter how powerful the energizer is, the performance of the installation is enhanced by looking after the earth connection.
Thus, after improving the earth connection, it is possible to use the dry or wet cell battery device regulators to reduce consumption while maintaining previous performance levels. The mains devices can electrify bigger enclosures and resist the growth of vegetation better as there is more energy available to desiccate the vegetation.

IMPORTANT: The earth connection of an electric fence must be completely independent of the earth connection for the house and must be separated from it by at least 10 m. Never connect it to a cable. You must not confuse it with the safety earth connection of a household appliance.

Short Earth Stake

Earth connection in galvanized steel for short fences that are often moved. Head specially designed to facilitate installation and withdrawal. Easy, swivel wire connection. To increase efficiency, it is strongly advised to install several units at the same time.

Ref. **667.602** (packet)



1m Earth stake

1m earth connection. Long duration galvanised steel. Special profile for increasing the surface in contact with the ground and ensuring an electrical connection superior to the connection obtained with an ordinary rod. Rapid and solid mounting system for the wire via a bichromate blocking nut.

Ref. **667.800**

The Checks

10 kV Controller

The 10 kV controller is a voltage tester (voltmeter) with 6 lamps (instead of the usual 5) and a user range between 1,000 and 10,000 volts.
Its design is ergonomic with a very large protection guard and an extra flexible multistrand earth wire.
For line tests and earth connection checks

Ref. **660.302**

1 lamp tester

To check for the presence of voltage on an electric fence line.

Ref. **660.502**

Remote (Bip) tester

"No contact" tester that emits a beep whenever it detects a pulse on the fence from a distance. It is also used to check the state of the power supply discharge (9 V battery or 12 V wet cell battery) at any point in the enclosure if the enclosure is electrified by a LACME autonomous energizer equipped with the Accu'Protect function. Its "L.E.D.-indicator light" in three colours lights up in green, orange or red depending on how much battery power remains. The "L.E.D.-indicator light" goes out if the battery is less than 10% charged. Also used to estimate the level of leakage due to vegetation by means of the same L.E.D. if the enclosure is electrified by a SECUR mains fencer.

Ref. **660.902**

Pro 12 kV joulemeter

2 appliances in 1

Joule entry

Measurement of energy in joules

Volt entry

Measurement of the starting tension in Volts (V) Up to 12,000 Volts (V).

A real virtual animal

12kV joulemeter

A high technology product, the 12 KV joulemeter developed by the LACME engineering department is the only pocket controller in the world capable of offering both a direct reading of the energy in joules that the animal experiences and a direct reading of the starting voltage! The chosen testing device of professionals, this is an indispensable tool for determining the efficiency of the Joule + Volt pair essential for the correct operation of a fence at a precise location in the enclosure. Indication of the charge voltage by bargraph.

Ref. **662.302**

Standard joulemeter

10kV joulemeter

A smaller version of the 12 KV joulemeter that does not measure the starting tension, the "Standard" Joulemeter is used to read the energy in joules directly that the animal experiences in the location where the measurement is performed. Indication of the charge voltage by bargraph.

Ref. **662.400**

Minimum values recommended

Digivolt

Digital voltmeter + leak detector

Checking instrument extremely easy to use.

Very useful when looking for the source of a fault on a network of electric fences.

Operates without earth connection.

Essential equipment: always keep it with you!

Ref. **662.602**

- Extremely easy to use
- Automatic on/off function
- Clear, simple information
- Ergonomic and robust
- 3 levels of information:
  - voltage
  - direction of the loss
  - size of the loss

Isopost 110/140

Self-insulating fence post for wires, cords up to 6 mm and tapes up to 40 mm wide.
Reinforced trapezoidal structure. High stability streamlined double base flange. Large Ø8 mm profile point, 200 mm in length for perfect anchorage.
Height of the loops provides protection for all types of animals.

110cm green Isopost
Ref. **640.400**

110cm white Isopost
Ref. **163.070**

140cm green Isopost
Ref. **640.302**

140cm white Isopost
Ref. **640.300**

Double flange + reinforced trapezoidal base

New system fixing system for batches of 10 posts

Stirrup Post 165

Stirrup immersion system

Self-insulating post with "stirrup" immersion system for easy installation even in hard ground. The 1.45m height out of the ground is much superior to usual standards. The Ø8 mm point and 160 +45 mm length provides it with exemplary stability. **Ideal for horses,** in cords up to 7 mm or tapes up to 40 mm wide.

165cm green Stirrup Post
Ref. **640.900**

165cm white Stirrup Post
Ref. **640.902**

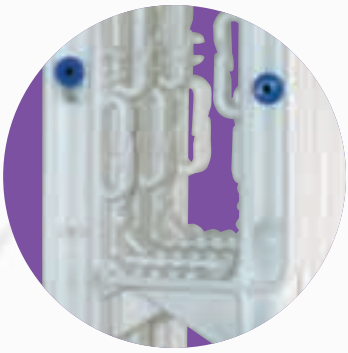
Kipost 80/105

"Automatic" loop so you can insert wire while you walk!

Smart self-insulating post: compact, light, its unique patented interpost fixing eases transport and frequent movement. Special loops enable you to insert wire without stopping at the post.
Ideal for intensive subdivision.

Kipost 105
Ref. **640.600** - white
Ref. **640.602** - green

Kipost 80
Ref. **640.700** - green
Kipost 80 is ideal for small animals. It is also commonly used for sheep enclosures.



Unique, compact and patented system packaged in batches of 10.

Fibreglass post 120, 160, W, Flange, bell

Real size

Fibreglass post 160
Ref. **641.700**

Fibreglass post 120
Ref. **641.500**

Bell for fibreglass post
Used to drive the fibreglass posts deeply into the ground without damaging the head of the post.
Ref. **642.100**

Fibreglass post 120, 160, W
Ø10 mm insulating posts in fibreglass, with smooth UV varnish. Flexible and hyper resistant, **it is perfectly suitable for permanent fencing systems.** . It is very easy to install thanks to the bell for fibreglass posts that provides firm anchorage or the fibreglass post flange used for provisionary installations. The fibreglass post W version enables the post to resist ascending vertical pressures during installation in undulating terrain.

Flange for fibreglass post
Very practical for the installation of fibreglass posts when used for subdivided fencing.
Ref. **642.902** (packet of 10)

The reelers

Easyroll 3

Compact, light and easy to handle reeler with built-in fixing hooks, spool blocking marker and turning handle.

Ref **647.900**

Easy spool 4
Ref. **648.300** (batch of 3)

Easyroll 4

Reeler with detachable tape used to wind 700 m of wire and 300 m of standard 10 mm tape and **to unwind the majority of wires and tape on their original support,** using the handle. Built-in fixing hooks, blocking marker and turning handle. Ergonomic handle. Interchangeable tape.

Ref **648.000**

Uniroll reel
Ref. **647.800**

Uniroll

ABS reeler with large diameter drum **to increase winding speed.** Very robust. Built-in anti-slip wire guide, **winding brake** and blocking marker. Capacity = 500 m of standard wire. Interchangeable spool. Compatible with the support post 645.100.

Ref. **647.600**

Super reeler spool
Ref. **648.200**

SUPER Reeler

High capacity reeler capable of containing more than 1,000 M of standard wire. Increased drum diameter to ensure **high speed reeling.** Adjustable brake, blocking marker. Powerful, ergonomic turning handle. Robustness in all situations. Interchangeable tape.

Ref. **648.100**

Economy Reel

A basic reeler. Up to 350m of polywire or 300m of 12mm tape.

Ref **410.800**

Corner post

Corner post / Super Reeler support post. Essential for temporary enclosures. Used to energize the wire thanks to its particular anchoring system. Used at the start of the line or in the corners.

Ref. **643.800**

Support post For Uniroll/Speedroll reeler

Uniroll / Speedroll 2 / Speedroll 3 reel support post. Support post designed to receive 1 to 3 reelers. Ideal for subdivision line starts.

Ref. **645.100**

Speedroll 3

GEARED DOWN Reel: 1 turn of the handle = 3 TURNS OF THE SPOOL. Very large capacity = 800 m of wire / 300 m of tape. **Anti-slip robust wire guide.** It is possible to electrify the wire directly on the reel. Built-in line start and spool marker hooks. Spool in SHOCK polymer = Resistance. Compatible with the 645.100 support post.

Ref **648.400**

Accessories

Electric fence sign
Legal requirement every 50 m along public rights of way.

Ref. **665.202** (blister pack of 5)

Handy tensioner
To be set up during the installation of flexible wire or tape up to 12 mm wide.

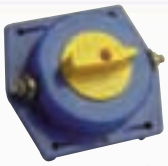
Ref. **668.802** (packet 2)

Super Fencing Pliers
Double insulated handles. Chrome-Vanadium finished heavy duty specialist pliers.

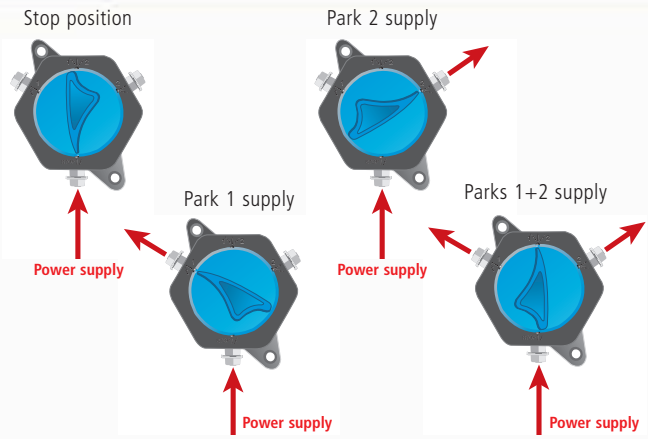
Ref. **670.600**

Super Lightning Protector
The lightning protector deflects lightning towards the ground to protect the energizer. Its double arrester and coil ensures added safety.

Ref. **667.102** (packet 1)



2way circuit breaker
Ref. **668.502** (packet 1)



PRO circuit breaker
4-position switch: stop, electrification 1, electrification 2, electrification 1+2.
For instance, used either to earth a wire or to apply power according to the season.
Essential for creating a coherent network that makes troubleshooting easier.

Ref. **668.402** (packet 1)

Roto-Galva tensioner
Used for rapid and powerful tensioning of any high tensile wire. Used with its handle.

Ref. **668.602** (packet 6)

Handle for Roto-Galva tensioner
Ref. **670.300**

On-line Tensioner
Tensioner that can be set up on a line that has already been installed.

Ref. **668.702** (packet 2)

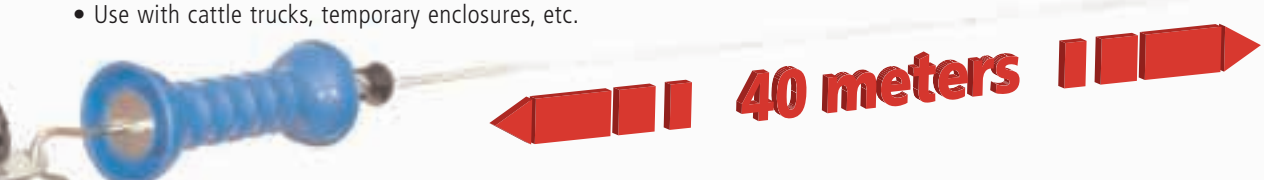
Roto-Click Tensioner
Tensioner to be installed during the installation of any high tensile wire. Can be installed as standard with a spring.

Ref. **668.902** (packet 2)

Stabroll 40m
Automatic reeler for stabling, cattle trucks, etc.

- 40 m of wire with automatic return.
- Perfect for stabling.
- "Emergency stop" if the wire breaks.
- Energizing on the handle or the reeler.
- 2 attachments possible.
- Change of the wire is possible without risk.
- Use with cattle trucks, temporary enclosures, etc.

Ref. **649.000**



AF100 Starter Kit

A basic kit with 200m of tape for short paddock dividers.
2 D-cell battery Energiser, batteries,
1 x lead out to fence, 1 x polytape tape 12mm x 200m,
2 x end fittings, 2 x insulators, 20 x 105cm posts,
1 x gate handle with tape connection, 1 x fence sign. Supplied boxed.

Ref **790.100**

AF200 Paddock Divider Kit (Dry Battery)

A paddock dividing kit with 110cm post which can be used with ponies and horses. Pack includes everything required for a line up to 200 metres long. Includes:- Zap5 energiser, 55Ah dry battery fitted, earth stake,
1 x lead out to fence, 1 x megablue 12mm tape 200m,
2 x end fittings, 20 x 110 isopic fence post, 1 x electric fence sign,
1 x gate handle with tape connection. Supplied boxed

Ref **790.200**

AF210 Paddock Divider Kit (Wet Battery)

A paddock dividing kit with 110cm post which can be used with ponies and horses. Designed to run on a wet battery. (battery not supplied) Includes:- Clos 20 energiser, Wet battery leads,
earth stake, 1 x lead out to fence, 1 x megablue 12mm tape 200m,
2 x end fittings, 20 x 110 isopic fence post, 1 x electric fence sign,
1 x gate handle with tape connection. Supplied boxed.

Ref **790.210**

AF250 Paddock Divider Kit

A paddock dividing kit with 140cm posts which are used with larger horses. Includes:- Zap5 energiser, 55Ah dry battery,
earth stake, 1 x lead out to fence, 1 x megablue tape 12mm x 200m,
2 x end fittings, 20 x 140cm posts, 1 x electric fence sign,
1 x gate handle with tape connection. Supplied boxed.
(Wet battery version also available).

Ref **790.250** **(dry battery)**
Ref **790.260** **(wet battery)**

Poultry

Green
Ref **700.752** (50m)
Ref **700.725** (25m)

Poultry Kit c/w energiser & battery in box
Ref **790.355** (9v)
Ref **790.360** (12v)
Ref **790.370** (mains)

Sheep

Orange 50m net
Ref **700.450**

Sheep Kit c/w energiser & battery in box
Ref **790.450** (12v)

Rabbits

Orange 50m net
Ref **700.650**

Green 50m net
Ref **700.652**

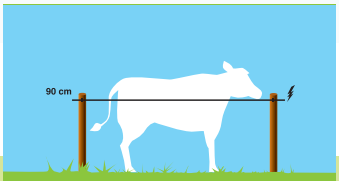
Rabbit Kit c/w energiser & battery in box
Ref **790.650** (12v)

Number, height and distribution of wires

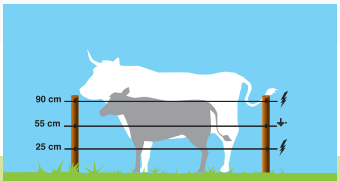
There is no absolute rule. Often an electric fence with a single wire is enough to contain well-behaved animals! If this is not the case, the animal must have passed through the fence without touching the wire or could not have received a shock strong enough to deter it. If the latter is the case then either too much resistance exists between the conductor and the animal or between the animal and the return path of the current. It is then advisable to set up extra wires so that:

- the current will penetrate the fur and thus have a real effect on the animal,
- the least insulated parts of the animal will be more exposed to an electrified wire,
- problems with a difficult return via the earth can be overcome.

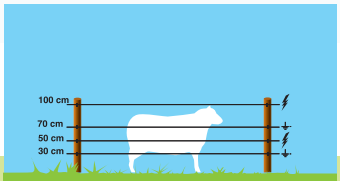
Some examples of possible configurations for different types of animals are illustrated below. Don't hesitate to adapt them to your particular situation (age, breed, terrain, etc.):



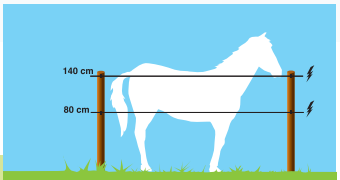
Subdivision fence for cattle



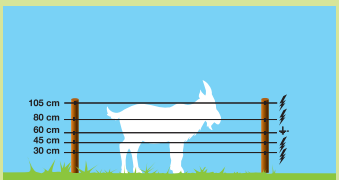
Outside fence for cattle in dry terrain, with 25 cm anti-intrusion wire



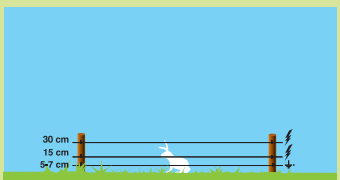
Outside fence for sheep with anti-intrusion wire



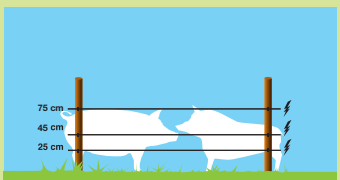
Outside fence for horses



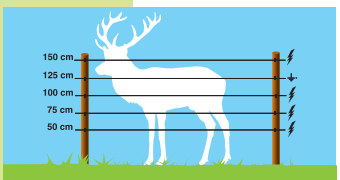
Fence for goats



Fence for protection against rabbits



Fence for protection against wild boar or outside fences for pigs



Fence for game

Each site and each animal is unique. Please note that this advice is provided for information purposes only and shall not entail our liability.

The permanent fence

LACME permanent systems: "Install for good!"

In a world where every minute and every decision counts, the "permanent fence" **is a considered long-term investment.** Barbed wire is simply out of date! The "permanent fence" is a simple, modern concept for which every element is designed to last and provide the durability, reliability, performance and safety levels that professional livestock breeders demand.

The well-designed permanent fence is suitable for all animals from cattle to sheep on flat or uneven terrains and for both small and big subdivisions. Its service life makes it the most economical fencing solution if the correct parts are chosen and if it is installed and managed correctly.

The principle of the permanent fence is clear: the fence resists mechanical pressure from an animal or other external source before regaining its initial configuration once the load has disappeared. This fantastic resilience makes it possible to separate posts by up to 20 m in certain instances, e.g. for cattle in pasture.

Two concepts

SECURGAL the strength of oak... FORCEFLEX the flexibility of reed!

Lacmé offers two distinct programmes for permanent fencing:

SECURGAL, is based on a network of high tensile steel wires that are under high tension. It offers the robustness of a "physical barrier".
This system is relatively easy to install as long as the terrain is flat and the fence is straight.

FORCEFLEX, based on a technical wire cable in aluminium alloy, boasts the flexibility of an "elastic barrier".
Installation remains simple despite hollows or bumps or an uneven fencing perimeter.

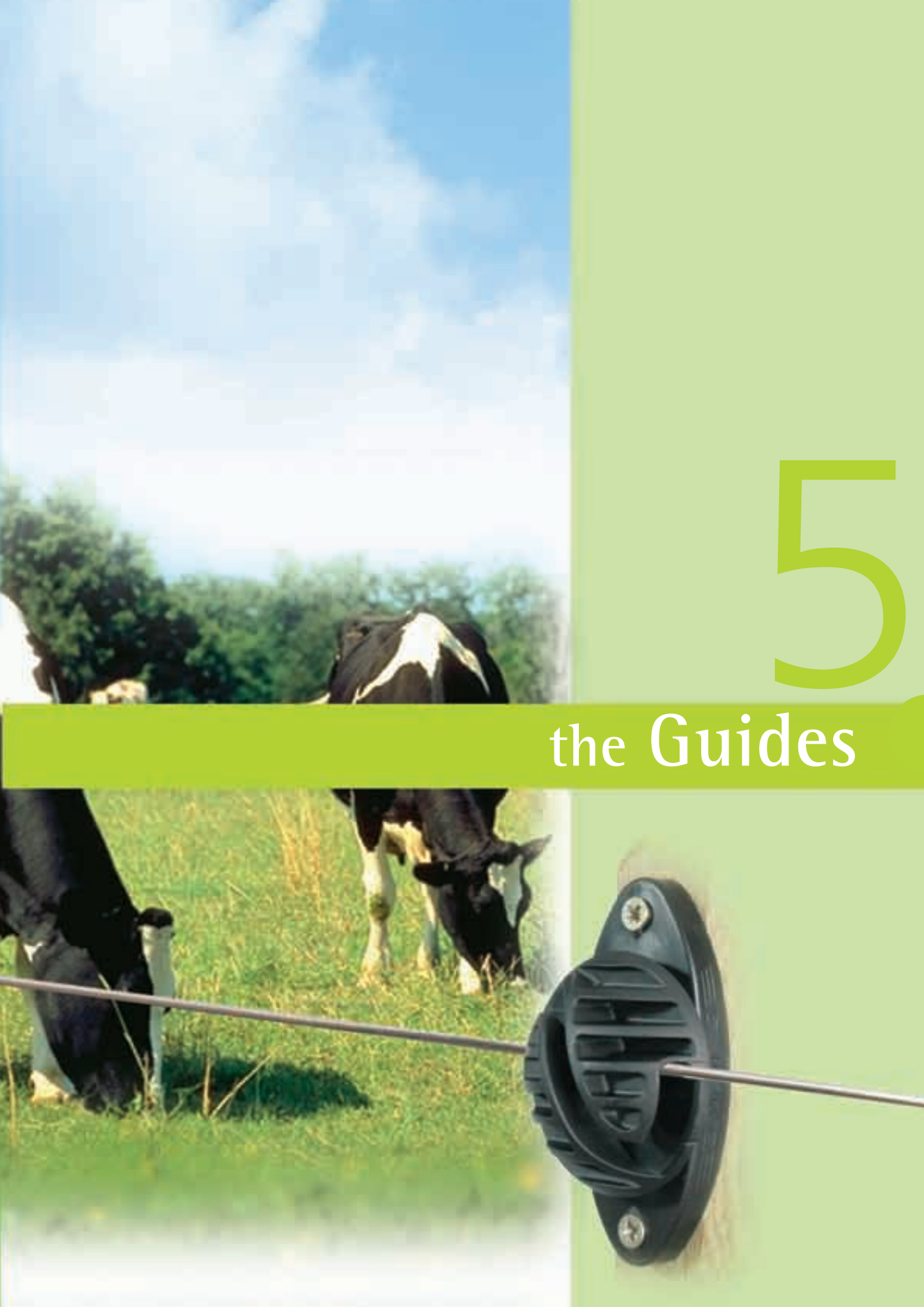
SECURGAL

Tightened to a high degree (80 to 100 kg), SECURGAL's effectiveness is based as much on the deterrent value of the electric pulse as it is on the obstruction provided by the closely positioned, taut wires. Installation is particularly delicate because the high mechanical tension creates constraints and requires perfect anchorage of all the posts at the start and end of the line and at the corner posts. Sécurgal is easier to set up on flat areas than on uneven spaces and requires very linear configurations. This permanent fencing is an excellent choice for SHEEP.

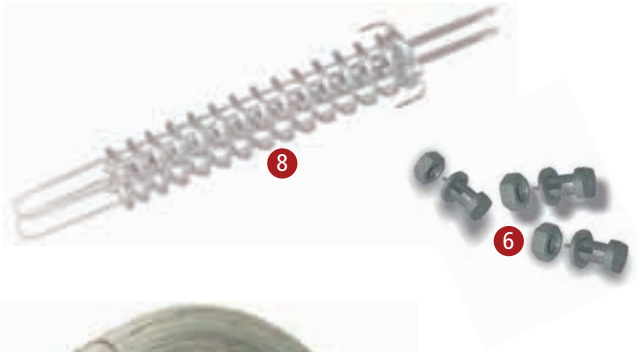
FORCEFLEX

The FORCEFLEX fence is very innovative and very safe. This is the most practical fencing system to install because it offers all the advantages of a traditional electric fence. Very quickly and easily installed, it is appreciated for its lightness, power and adaptability to steep landscapes. In addition, it is very durable, environment-friendly, economical and poses no risk to the animals. This permanent fencing is an excellent choice for CATTLE.

The FORCEFLEX wire, soul of the system, offers the impressive qualities of the world's most conductive wire. Thanks to it lightness and flexibility, no tools are needed to install it. Its gloss and brilliance provides it with in incomparable visibility that remains optimal at night when the moon is in the sky! Installing the wire is totally safe as very little mechanical tension is required. And furthermore, as for any FORCEFLEX element, the wire does not contain iron. There is thus no risk of rust and you can expect exceptional service life.



5 the Guides



Composition for the 650 meter / 2-wires system

1. PROTENSILE 165 Y-shaped posts - Ref.: 643.300
2. Securgal 25 Pro wire (25 kg) - Ref.: 633.000
3. PROTENSILE Isoline (bucket of 90) - Ref.: 653.106
4. Ief Super (bag of 10 parts) - Ref.: 652.402
5. Handle for galvanized tensioner - Ref.: 670.300
6. Galva Junction - Ref.: 666.900
7. Roto-galvanised tensioner (bag of 6 parts) - Ref.: 668.602
8. Galvanized spring - Ref.: 670.500
9. Securgal unwinding device - Ref.: 647.000
10. PROTENSILE Bell - Ref.: 643.700

PROTENSILE start/corner post

Ref. **643.500**

- Ideal for fences up to 2 wires wide.
- Quick installation with bell.
- 2 m post: minimum 1 m in the ground!

For loose soil, install a "stabilising plate", using a 400x150 mm galvanized plate, 4 mm thickness, to drive it to the roots in order to avoid any possible resurfacing of the plate.

Traditional chestnut post

- Tendon and mortise brace.

Effective, but the wood has a poor service life and it is heavy and very technical to install.

Creosote autoclave post

- Traditional installation.
- Long-term treatment.

Securgal System

Securgal wire dispenser
With protective housing and reeler handle.
A

Securgal 25
Ø2.5 mm high tensile steel wire.
B

Roto Click tensioner
To be installed as standard for the Galva spring
C

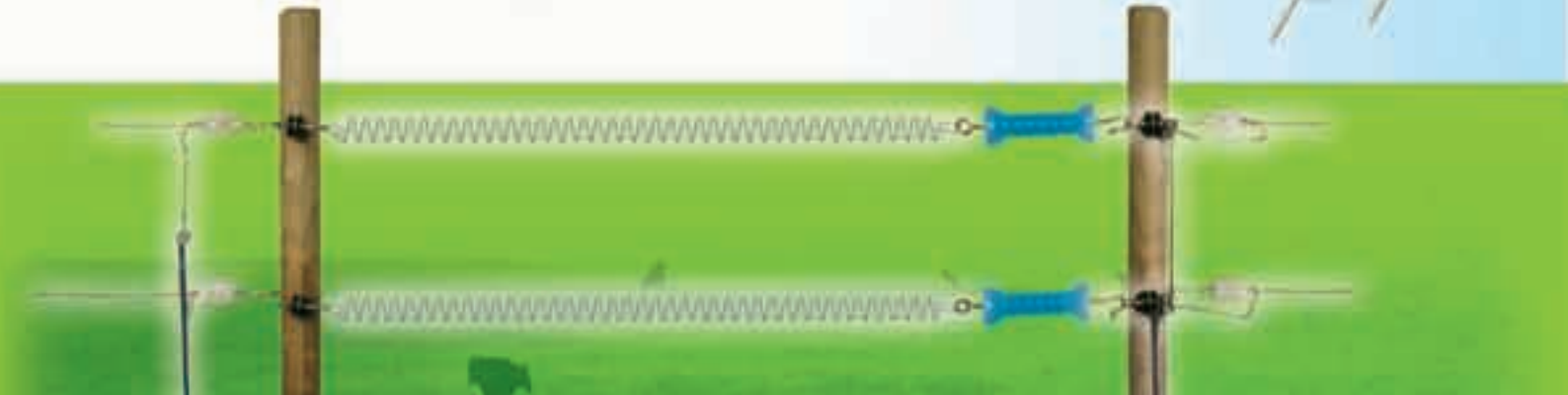
Galva spring
ILine tension indicator
D

Sentinel Transponder

IEF Super
Reinforced fibreglass
10-year guarantee
J

Link
Simple, solid and rapid joining of 2 high tensile wires.
K

Super Spring Gate Kit
Comprises a Super Handle, a Lonressor and two Isobar Supers.
L



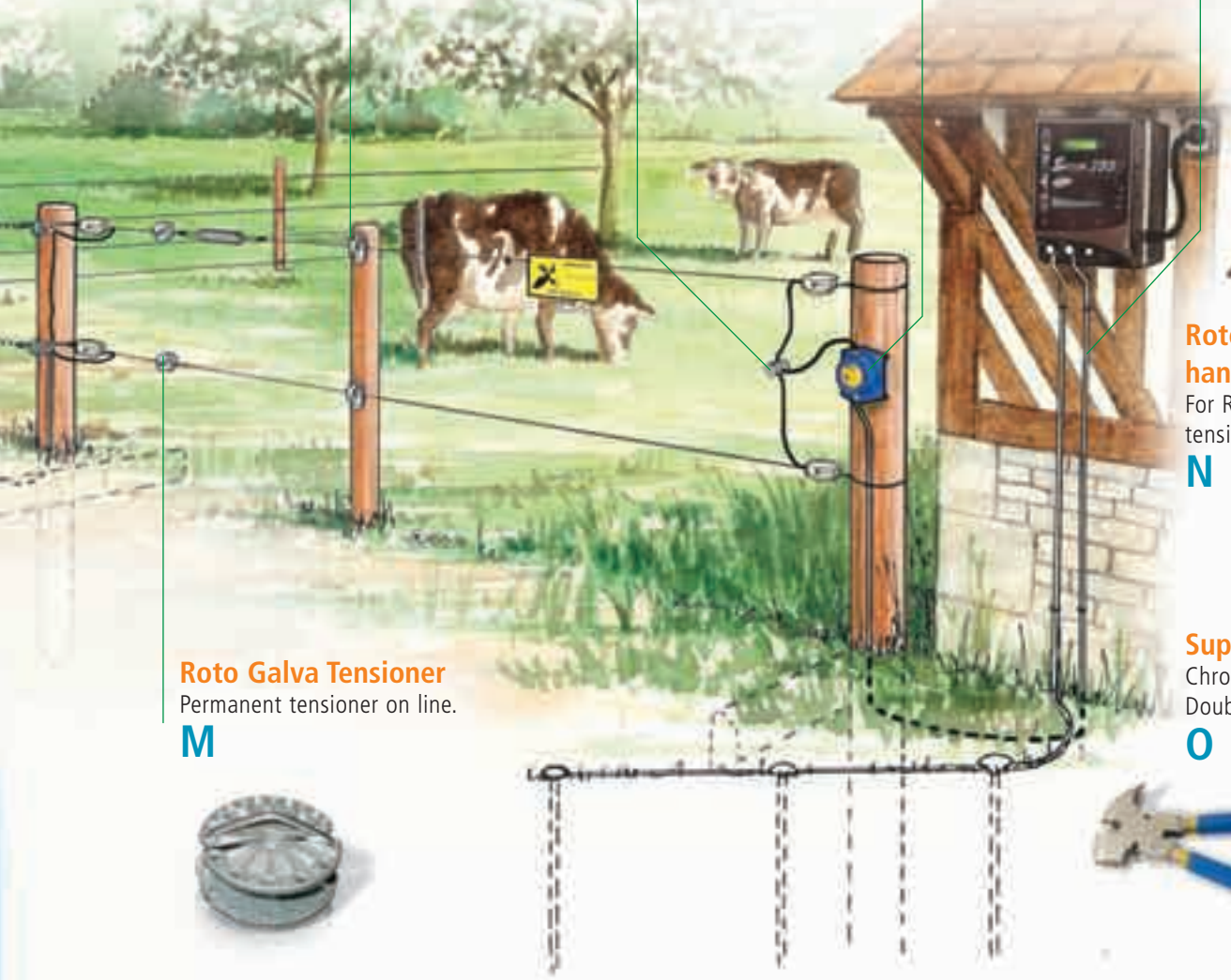
Iva
Screw-in line insulator.
5-year guarantee.
E

Isoline
Line insulator that can be screwed or nailed in.
10-year guarantee.
F

Galva junctions
Essential for interline or power supply connection.
G

Circuit-breaker
High tension switch.
H

Galva Fisol
High tension insulated cable.
I



Roto Galva handle
For Roto Galva tensioner.
N

Roto Galva Tensioner
Permanent tensioner on line.
M

Super Fencing Pliers
Chrome vanadium,
Double-sheathed handle.
O

A Securgal dispenser	Ref. 647.000	F Isoline	Ref. 653.006 - bucket of 100	K Joiner	Ref. 676.102 - blister pack of 5
B Securgal 25	Ref. 633.100 - 25 kg bundle	G Galva junction	Ref. 666.900 - bulk 10	L Super Spring Gate Kit	Ref. 665.902
C Roto Click tensioner	Ref. 668.902 - packet of 2	H Circuit-breaker	Ref. 668.502	M Roto Galva tensioner	Ref. 668.602 - packet of 6
D Galva spring	Ref. 670.500	I Galva Fisol	Ref. 664.502 - 25 m	N Roto Galva Handle	Ref. 670.300
E Iva	Ref. 650.506 - bucket of 100	J Ief Super	Ref. 652.402	O Super Fencing Pliers	Ref. 670.600

Installation of a high tensile fence

Securgal in flat, firm terrain.

1. A high tensile fence produces high mechanical constraints on all posts excluding the line posts. It is thus especially necessary to draw up an installation plan that limits changes of direction and corners as much as possible.

2. Decide on the number of wires, their positioning with regard to height and/or which side of the post they are to be installed, as the case may be, depending on the type of animals or vegetation that may be present. During assembly always wear protective gloves and glasses.

3. Drive all the start, end and corner posts one meter into the ground. These posts must have a diameter equal to or greater than 12.5 cm and must be of a high quality in order to resist traction and ageing (treated wood, acacia, chestnut or even railway sleepers).
In firm terrain, a transversal wedge placed just under the ground and produced using a sleeper at least 1.2m long eliminates the need to install braces or frames. These structures, more time consuming but at the same time more robust, are essential in crumbly soil or soft clay.

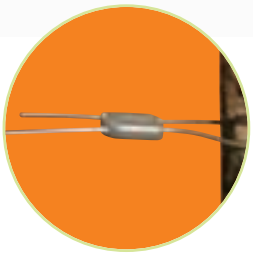
4. Using a winch, unwind the first SECURGAL wire from the first start post to the first end post.

5. Install an IEF SUPER insulator on the end post using a self-tightening knot or a LINK. Work the insulator under compression and not in traction and position it at the height allotted for the highest wire in the final installation.

Pass 1m of wire around the post and create the loop.

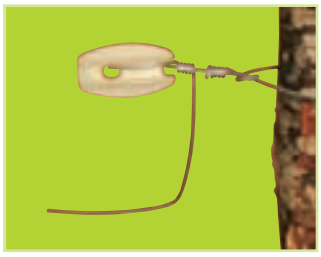
Form a handle.

Create a 3-turn splice.



It is possible to replace the knot with a link.

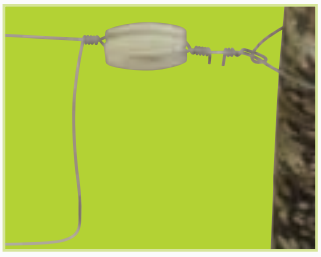
It is possible to replace the knot with a link. Insert the binding wire across the IEF. Form a new handle. Create a 5-turn splice. Pull on the IEF to align the post, binding and insulator.



Installation in uneven terrain or terrain that is soft or clayey requires modification of certain steps in the installation procedure (such as the order of assembly of the wires) and the application of certain extra precautions (reinforcement of structures) that cannot be elaborated on in this general document. For further information on this subject, contact us on www.lacme.com.

6 Insert the high tensile wire through the IEF SUPER insulator. On its extremity create a form of handle for the splice. Do not cut off the strand on the other side of the insulator as this will be used subsequently for electrical couplings.

Insert the fence wire through the insulator.



Form a handle in order to produce a 5-turn splice. Do not cut the handle as this will help to produce electrical couplings at a later stage.

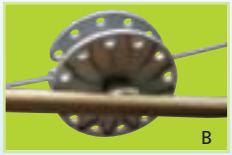
7 Return to the halfway point between the start and finish of the portion being worked on in order to install a GALVA SPRING. At this point, cut the wire and attach the spring (possibly coupled to a ROTOCLICK tensioner) using the flat knot. Do not tighten it.

Flat knot

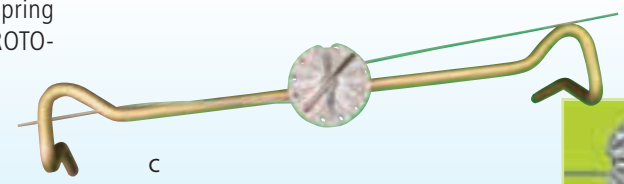
8 Return to the start post to set up an IEF SUPER insulator and then attach the wire to it.

9 Return to install a ROTO-GALVA tensioner close to the spring (if this tensioner has not already been coupled with a ROTO-CLICK tensioner).

Withdraw the lock from the tensioner before placing it on the wire.



IInsert the handle into the tensioner. Tighten it to the level required.



Block the handle by blocking its oblique part with the Wire. Insert the lock.

Withdraw the handle.

10 Tighten slightly to retighten the knots. Finish the splices of the flat knots.

11 Repeat the previous steps at the various wire heights working from the top to the bottom in order to avoid any unnecessary overlapping. For these wire heights, a GALVA SPRING is not required if the length of the segment exceeds 100 m: the tension of the lower wires may be adjusted after touching them to compare them with the upper wires.

12 When all the lines are in place, adjust the mechanical tension to the required level. In general, 90 kg is sufficient.

13 Install the intermediary posts along the section. These posts do not need to be anchored as firmly in the ground. They may be much lighter than the start posts and may be separated by up to 20 m, however it should be noted that with increasing distance the wires are easy to separate when pressure is applied. If necessary (in the case of wild animals), this phenomenon will be compensated for either by line posts that are closer together or by a greater mechanical tension than the recommended 90 kg. Do not however exceed 180 kg. Ensure that the posts are placed at least one meter from a spring, knot, joiner or tensioner to avoid hindering the correct movement of the wires during tensioning.

14 Fix the ISOLINE or IVO line insulators to the intermediary posts.

15 Work on all successive "start/end" portions of the fence in an identical manner. At the end of the high tensile wire reel, make a connection using a LINK and ensure that a distance of at least one meter is observed between the link and any post.

16 For each portion as well as between two successive portions, create the interwire couplings if necessary using the GALVA JUNCTION with the splices preferably at the IEF SUPER level. Take particular care when tightening.

Forceflex System

Ivabloc
Positioner on fibreglass post.
A

Forceflex wire
Ø 2.5 mm aluminium alloy wire. Length 400 m/ 5 kg.
B

Isoline
Line insulator to be nailed or screwed in. 10-year guarantee.
C

Isofix and Handle
Positioner on fibreglass post. One handle included for each packet of 25.
D

Bell for fibreglass post
For driving in deep without damaging the head of the fibreglass post.
H

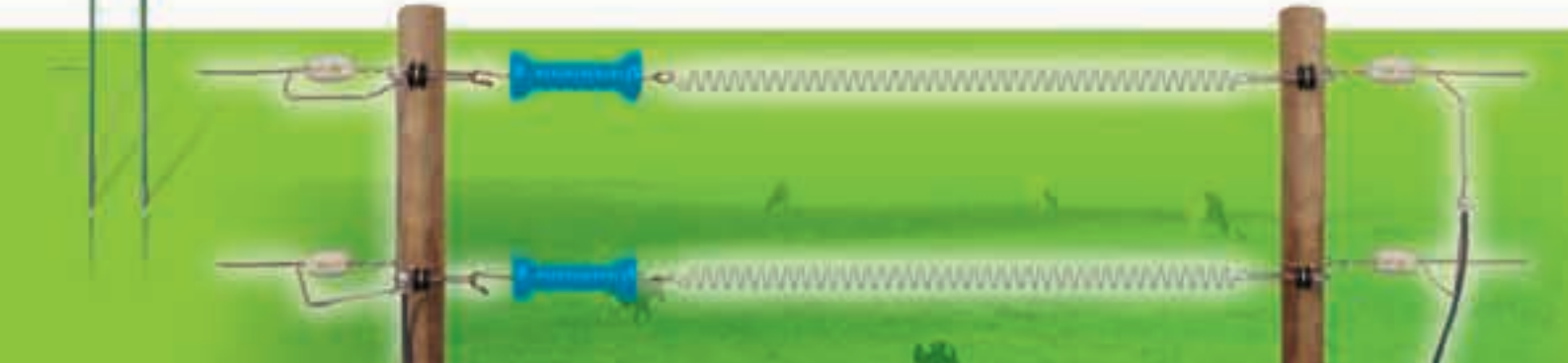
Fibreglass post 160
Ø 10 mm insulating post in fibreglass.
&I

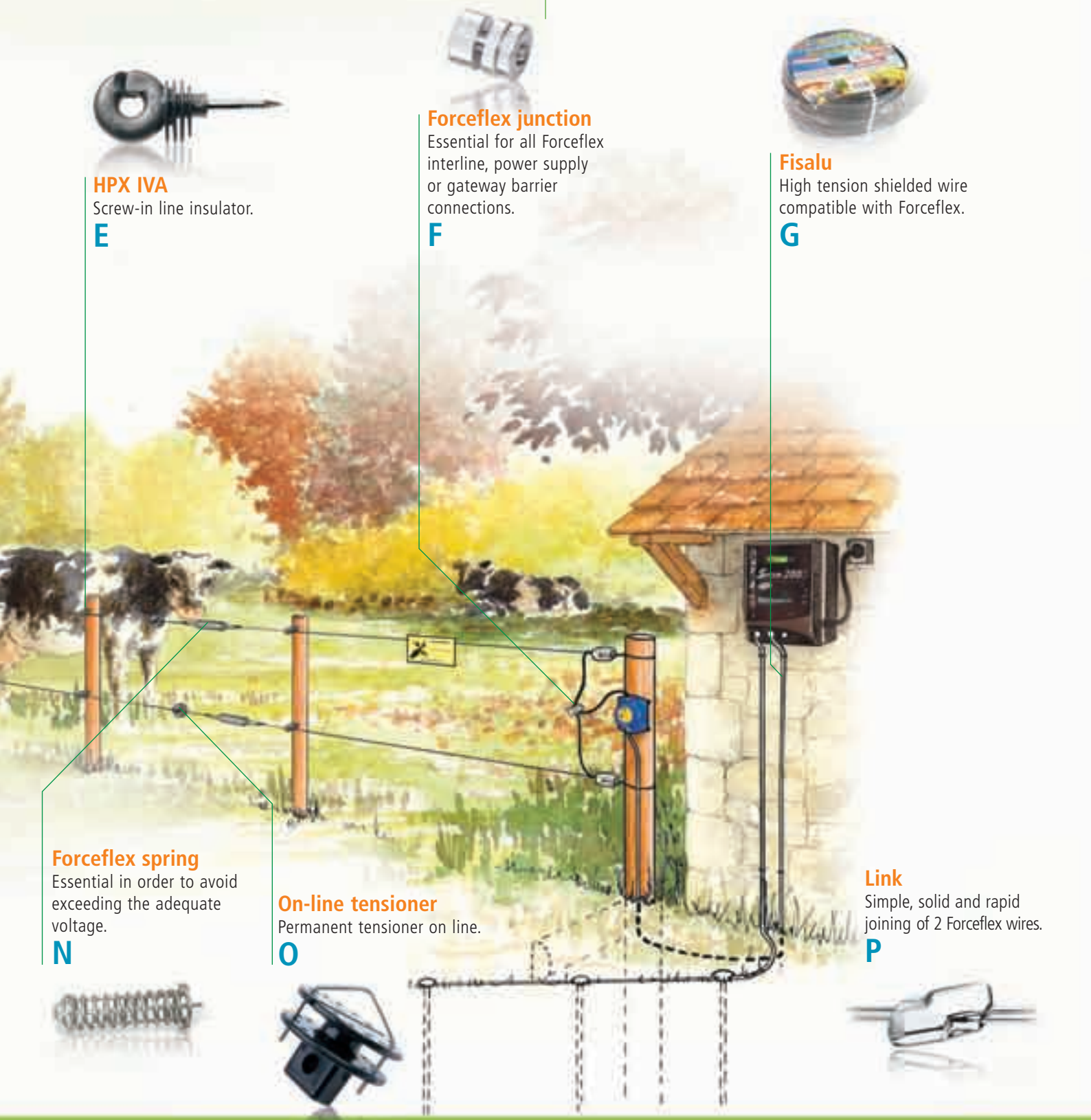
Fibreglass post W
Post resistant to vertical ascending pressure on undulating terrain.
J

Super Heavy Duty Handle
K

Isobaralu
Special gateway barrier compatible with Forceflex.
L

Ief Super
Reinforced fibreglass. 10-year guarantee.
M





HPX IVA
Screw-in line insulator.
E

Forceflex junction
Essential for all Forceflex interline, power supply or gateway barrier connections.
F

Fisalu
High tension shielded wire compatible with Forceflex.
G

Forceflex spring
Essential in order to avoid exceeding the adequate voltage.
N

On-line tensioner
Permanent tensioner on line.
O

Link
Simple, solid and rapid joining of 2 Forceflex wires.
P

A	Ivabloc	Ref. 655.102 - packet of 25	G	Fisalu	Ref. 664.402 - 25 m	M	Ief Super	Ref. 652.402 - packet of 10
B	Forceflex 25 wire spool	Ref. 633.800 - 5 kg - 400 m	H	Bell	Ref. 642.100	N	Forceflex Spring	Ref. 670.200
C	Isoline	Ref. 653.006 - bucket of 100	I	Fibreglass post 160	Ref. 641.700 - batch of 10	O	On-line pulley	Ref. 668.702 - packet of 2
D	Isofix	Ref. 658.102 - packet of 25	J	Fibreglass post W	Ref. 641.100 - batch of 10	P	Link 20/25	Ref. 676.102 - blister pack of 5
E	HPX Iva	Ref. 650.528 - bucket of 220	K	Heavy Duty Gate Handle	Ref. 665.300 - bulk by 10			
F	Forceflex junction	Ref. 669.102	L	Isobaralu	Ref. 658.602 - packet of 2			

Installation of an elastic fence

FORCEFLEX for any terrain

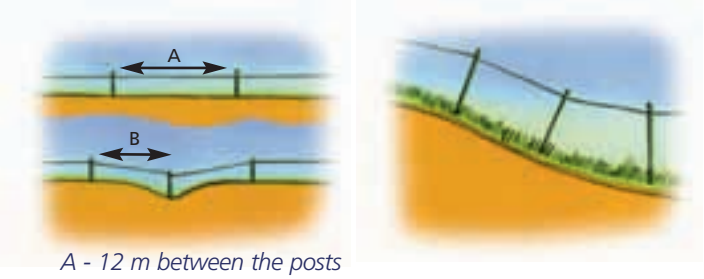
1. As the mechanical tension on a FORCEFLEX elastic fence only stresses its few anchor posts mildly, it is possible to choose a diameter between 80 and 90 mm approximately. Similarly, because the intermediary posts are only intended to preserve a constant distance between each wire height, it is possible to choose either wooden posts with small diameters or fiberglass posts. In all these cases, choose superior quality wood for resistance to aging. Opt for wooden posts if the fence does not need to be highly elastic (peaceful animals, open and slightly undulating terrain, etc.). Use fibreglass posts if the fence may be subject to mechanical stress (wild animals, falling trees, etc.) or if the configuration of the terrain is difficult (rocks and stones, slopes, etc.). Do not hesitate to switch from one post to another if the relief suggests this.

2. Start by installing the few anchor posts required: at the start, at the finish, at each corner as well as at the bases or tops of any possible steep passages. In firm terrain, drive them approximately 1m into the ground. If the terrain is very soft, reinforce their position using adequate structures (wedges, struts, etc.)

3. Pull a flexible, slightly tightened wire from one anchor post to another. Adjust it at the level allotted for the fence's lowest wire. It will serve as a marker for aligning the posts correctly and for checking the distance from the ground.

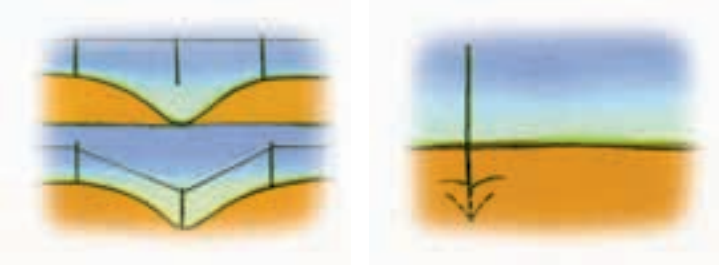
4. After an initial test of the nature of the subsoil, choose the constant depth to which you are going to drive in the posts. With fibreglass posts, 30 cm is often sufficient to ensure good anchorage. Then group together all the posts and mark them with the depth to which they are to be driven in as well as the height of the insulators.

5. Using a sledgehammer for wooden posts or a bell for fiberglass posts, drive the posts one by one to the constant depth chosen. The distance between posts may be extended up to 12 m, but it will be reduced for depressions and bumps so that a large space does not occur between the lowest wire and the ground (example: 8 m). All the posts must be driven in at a perpendicular angle to the terrain. Posts placed on slopes are thus not vertical!



A - 12 m between the posts
B - 8 m between the posts

6. In the hollows of depressions, the ascending vertical pressure exercised by the wire on the post may in the case of a fibreglass post result in the post coming out of the ground. In this instance a special post known as fibreglass post W must be installed with rods at the extremities serving to anchor the post into the ground. Separate these rods then drive the fibreglass post W 15 to 30 cm deeper into the ground than the other fibreglass posts. Then adjust the post upwards to make sure that the anchorage is effective in the ground.



7 In soft terrain, fibreglass posts placed at the top of hillocks may, under the descending vertical pressure exercised by the wire, sink into the ground. This phenomenon is contained effectively by installing an insulator at the base of the post which is adjusted to ground level. A rod with a length of 20 cm is placed in the insulator.

8 Install the insulators on the posts making sure that the lowest wire remains at a height that is basically constant.

9 Install an IEF SUPER insulator on the start post using a self-tightening knot or a link. Ensure that it functions under compression and not in traction and position it at the height allotted to the highest wire in the final installation.

Pass 1 m of wire around the post and create the loop.

Form a handle.

Create a 3-turn splice.

Insert the binding wire through the IEF. Form a new handle. Create a 5-turn splice. Pull on the IEF to align the post, the binding and the insulator.

10 Insert the extremity of the FORCEFLEX wire into the IEF SUPER insulator, then shape it into a handle to facilitate the creation of a 6-turn splice. Do not cut off the strand that emerges as it will be used subsequently for electrical couplings.

Insert the fence wire through the insulator.

11 Start by installing the wire at the top to ensure that subsequent entanglements with the lower wires do not occur. Unwind the FORCEFLEX reeler and thread the wire into the corresponding insulator for each post.

12 Install a FORCEFLEX SPRING halfway between the start post and the finish post of the first section: to perform this cut the wire before attaching the spring using the flat knot and returning to the end post.

Flat knot

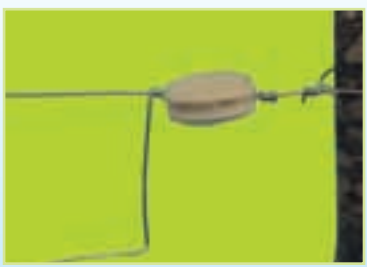
13 Finish the first section by inserting the FORCEFLEX into the line insulators then attach the wire to an IEF SUPER on the end post.

14 In the same manner, install the upper wire for all the successive "start/end" sections of the fencing. At the end of the FORCEFLEX reeler, create a connection using a LINK and ensuring that a distance of at least one meter is observed between the joiner and any post.

15 Install the ON-LINE TENSIONERS one by one at approximately 1 m from each FORCEFLEX spring in order to tension the wire. A mechanical tension originating in the middle of a section is distributed better along the wire than tension exerted at an extremity. Do not tighten more than necessary. Any excessive tension is harmful for the correct operation and the service life of the wire. A tension of approximately 30 Kg is recommended for the FORCEFLEX 25. It corresponds to the third graduation on the FORCEFLEX spring.

16 Then install the lower wires of the fence in the same manner as the upper wires. Work from the top to the bottom.

17 Once the installation is finished, produce the various inter-wire connections with the FORCEFLEX JUNCTION using the free strands of the splices at the level of the IEF SUPER insulators. Take special care when tightening.



Form a handle in order to create the 5-turn splices. Do not cut the handle so that you can subsequently perform an easy electrical coupling.

1 Do variations in temperature need to be taken into account?

High temperatures in summer reduce mechanical tension in the wire(s) whereas low winter temperatures have the opposite effect. This phenomenon is normal and does not in any way impact on the performance of the permanent fencing which depends on electrical deterrence for its effectiveness.

The effects to be expected are summarized in the following table:

Type of fence	SECURGAL	FORCEFLEX
Maximum distance recommended between each post	10 to 20 m	8 to 12 m
Mechanical tension prescribed for installation at 20°C	90 kg	30 kg
Natural variation in mechanical tension (summer/winter)	60 / 120 kg	10 / 50 kg
Typical deflection between two intermediary posts (summer/winter)	2 / 0.9 cm	2 / 0.3 cm

The maximum tension is attained naturally by FORCEFLEX at the dead of winter and must not be too high. It is also important, on the day that the fence is installed, to take into account the impact of the temperature if it differs substantially from 20°C during mechanical tensioning. In this case the recommended value of 30 kg can by adjusted by applying the following formula: [Recommended tension = 45 - (0.75 x Temperature)]. Thus if it is 40°C outside, only tighten the FORCEFLEX to approximately 15 kg, however it is -6°C it is possible to tighten it to 50 kg on that day. As a result of its higher resistance to breakage, SECURGAL is not affected by this corrective factor.

2 Is a spring really necessary in all instances?

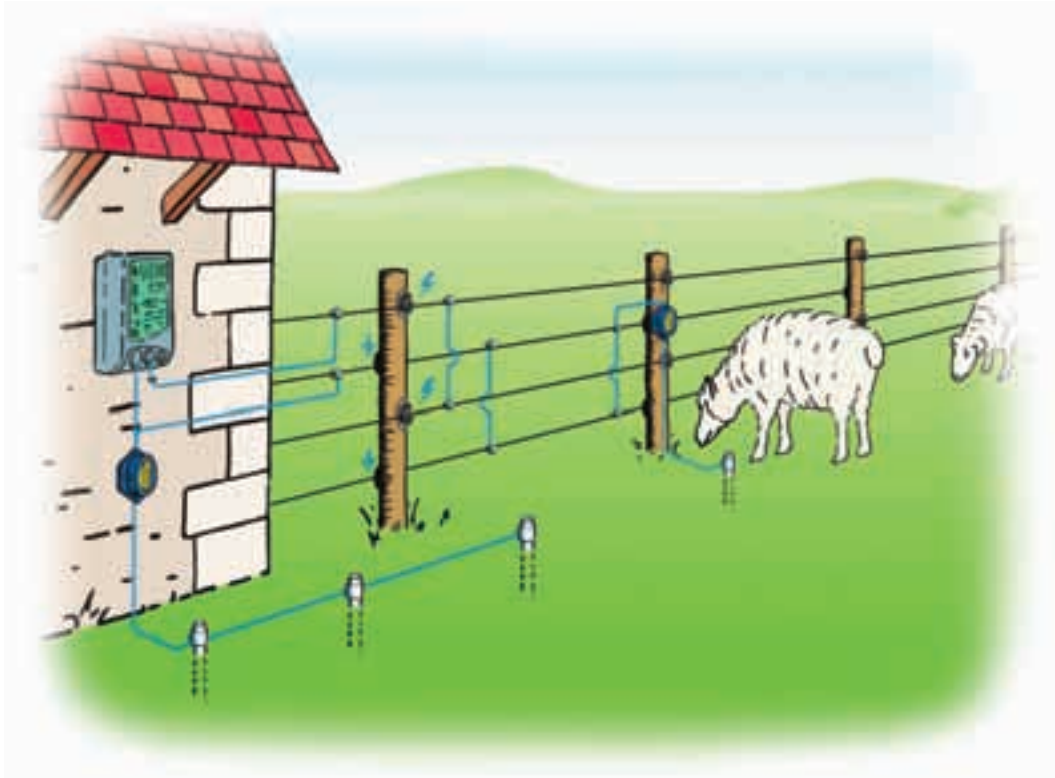
For SECURGAL, the spring is intended almost exclusively to provide an indication of the level of mechanical tension present in the permanent fencing. The SECURGAL wire possesses an elastic reserve that is substantial enough to ensure that sections longer than 100 m do not require extra "extension safety". Thus for multiwire sections longer than 100 m the spring is only necessary on the first wire as the other wires can be tightened after touching them to compare them to the standard line.

With the FORCEFLEX the spring is recommended irrespective of the length of the section considered.

3 How can the impact of vegetation under a particularly long fence be reduced without resorting to an excessively powerful fencer?

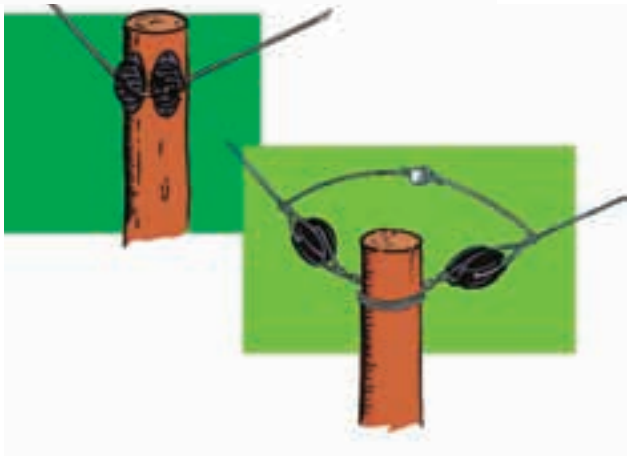
A first solution involves disconnecting the lower electrified wire if it is too low and completely covered by the vegetation. Ensure that it is reconnected once winter has arrived. A second solution involves arranging the enclosure so that the neutral and earth wires alternate on either side of the posts.

Advantageously, the neutral wires may be positioned on the opposite side to the pasturage. The animals can thus graze close to the fence while the significant part of the vegetation growing on the opposite side remains vertically contained by the neutral wire(s) and thus does not provoke electrical leakage. If this configuration is not sufficient, it is always possible (by installing a few circuit-breakers in series with the earth connections) to organize the fence so that the neutral wires and the main earth connection can be disconnected from the earth during peak vegetation times. Electrical leakage is thus greatly reduced and the efficiency of the fence is not substantially affected. With such an installation, it is possible to electrify networks containing several tens of kilometres using a reasonably powered energizer.



4 Can line insulators be used for changes in direction?

3 possibilities are available for managing corners. The first is recommended for small angles only (± < 60°) and involves passing the wire on the opposite side of the post, using 2 ISOLINE insulators under compression. The second solution involves using a single IEF SUPER insulator but requires excellent planning if the perimeter to be fenced is complex and includes many right angles. The best solution, slightly more expensive to install but offering easier maintenance, is to treat the majority of changes in direction like a "start-end " section set.



5 Why should the link be preferred to the figure of eight knot in the event that the wire reel has been broken or replaced?

A figure of eight knot, although effective, reduces resistance to breakage of a high tensile wire by 30%.
The link is used to repair a broken line easily without weakening the line.

Figure of eight knot

Link

6 How can more time be saved in the assembly of my fence?

It is possible to prepare the IEF SUPERs with their bindings at home rather than directly on the supporting posts during installation. The time saved can be considerable as the work is performed in series.

7 What must be done to look after the fence well?

Avoid spreading corrosive products that may attack the anti-corrosion coatings.
Do not allow vegetation to grow and drown the enclosure unnecessarily over long distances.
Take special care of the interconnections. Install them preferably on the splices. Avoid mixing metals.

8 Which insulator is most suitable for a particular project?

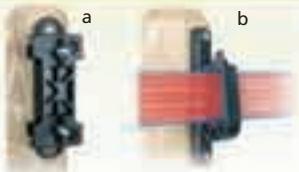
Using a screwing machine equipped with a SPEEDISO, the IVO is installed in the blink of an eye with a single screwing. In addition it is used to insert/withdraw a high tensile wire even if this wire is already tightened. It thus allows for marking without tools.
The ISOLINE requires two screwings. Like any other insulator with baffle, the high tensile wire must be inserted into it beforehand at the clip on the post. This results in a particularly precise positioning of the ISOLINE during installation. However, in relation to a standard insulator with baffle, its form has been designed to allow the possible removal of the wire in winter without any need to unscrew the insulator from the post.

9 Is it possible to install a permanent elastic fence similar to the FORCEFLEX fence but with a high tensile type steel wire with a diameter of 1.6 or 1.8 mm?

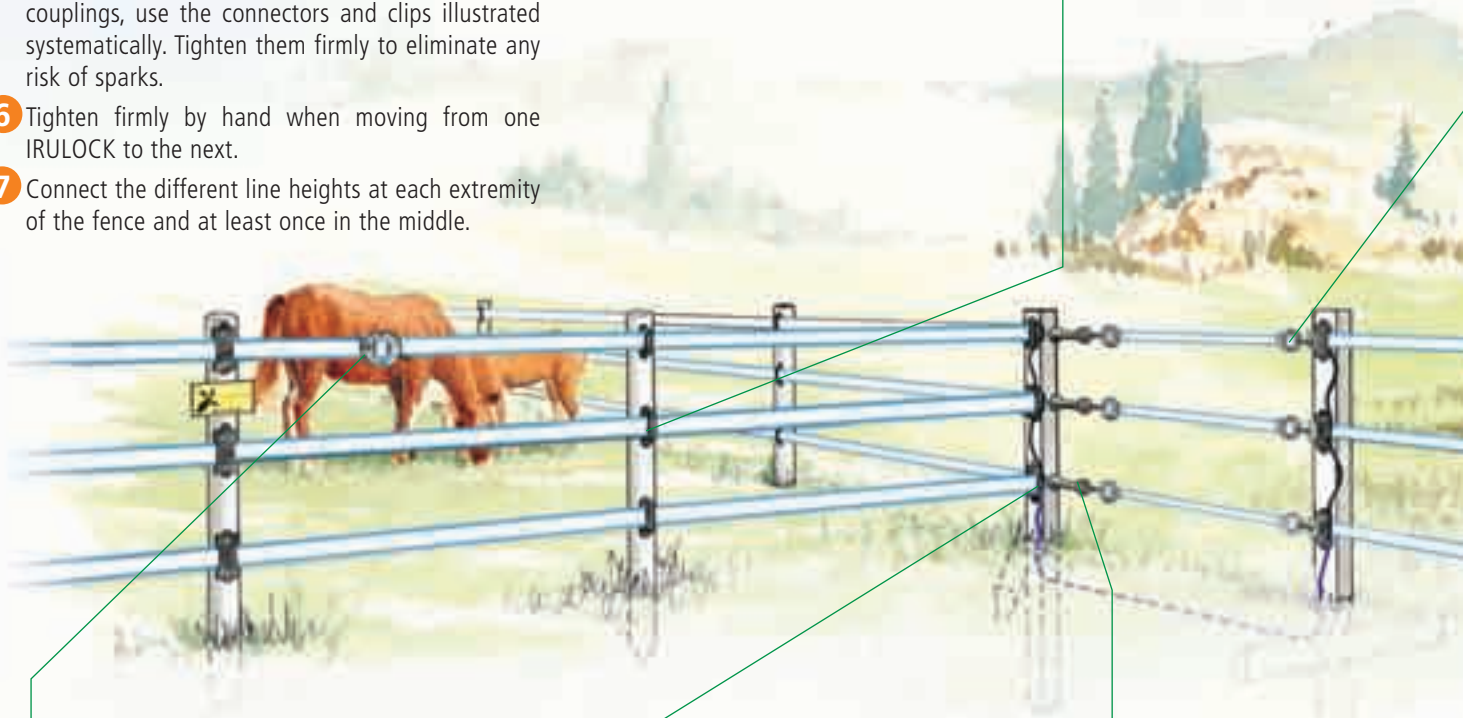
Yes. The high tensile steel with a diameter of 1.6 or 1.8 mm lends itself well to such a fence. It offers a higher resistance to breakage than the FORCEFLEX, resulting in an interesting solution for the installation of fences intended for protection against wild animals in difficult or sloping areas (scrubland, forests, etc.). Owing to its heavier weight, installation is slightly more difficult than with a FORCEFLEX fence but remains quicker than for a SECURGAL 25 fence.

1. Corner, start/end and gateway barrier posts: Ø 12 cm, 2.5 m minimum height, driven 1m into the ground. 1.2 m perpendicular wedge at 10 cm beneath the ground, obligatory in soft terrain.
2. Ø 8 mm intermediary posts, 2m minimum height, driven 50 to 60 cm into the ground. Spacing of 3 m for windy regions and up to 6 m for areas sheltered from the wind.
3. In sheltered areas, a tape from the STANDARD range is suitable. In windy areas, the use of tape from the RENFORCE range is recommended.
4. On line posts, use 1 IRULOCK for every 3 PASSLOCKs.
5. Never tie the tapes. For the connections, links and couplings, use the connectors and clips illustrated systematically. Tighten them firmly to eliminate any risk of sparks.
6. Tighten firmly by hand when moving from one IRULOCK to the next.
7. Connect the different line heights at each extremity of the fence and at least once in the middle.

Reinforced Tape 40mm
Reinforced structure,
14 conductors with large diameters.
A



Passlock Kit
5 blocking tensioner "Irulock" insulators (a)
+ 15 Passlock positioner insulators (b)
B



Tape Clip 40
G

Stoplock
Start, corner angle and gateway barrier insulator.
H

Horse Gate Handle
I

Tape End clip
C

Tape High Voltage Output 40
D

Circuit-breaker
Circuit-breaker.
E

Fisol
High voltage insulated cable.
F

Inter Tape Connector 40
J

1 m Earth Stake
K

A	Reinforced Tape 40mm	636.300 - reeler. 200 m	E	Circuit-breaker	668.502	I	Horse Gate Handle 665.800
B	Passlock Kit	657.802 - pack. of 5 + 15	F	Fisol	664.102 - reeler 25 m	J	Inter Tape connector 40 669.602
C	Tape end Clip	666.802	G	Tape attachment 40	666.702	K	1m Earth Stake 667.800
D	Tape High Voltage Output 40	667.302	H	Stoplock	653.702 - pack. of 2		

Standard system

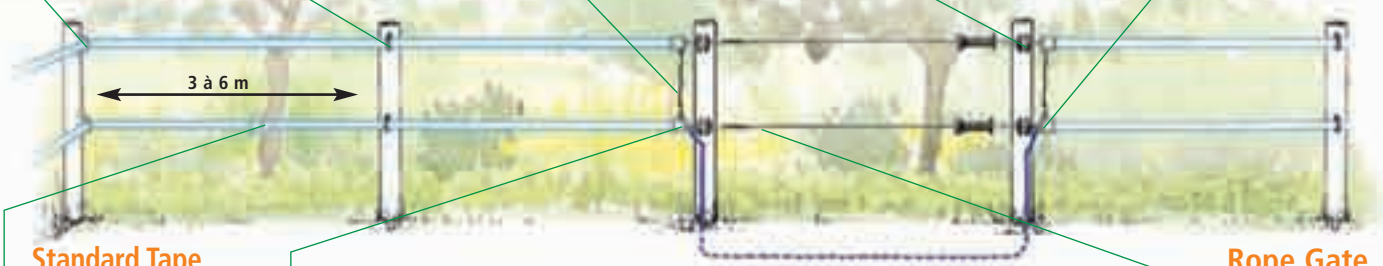
Iruangle
Ref. **653.902**
(packet of 2)

HPX Iruvis
Ref. **657.002**
(packet of 25)

Wire Connector
Ref. **669.202**
(blister pack of 1)

Isobar Super
Ref. **658.702**
(packet of 2)

Forceflex Junction
Ref. **669.102**
(blister pack of 2)



Standard Tape clip 40
Ref. **676.602**
(blister pack of 4)

Standard Tape End
Ref. **676.702**
(blister pack of 2)

Rope Gate Kit
Ref. **665.402**

Rope System

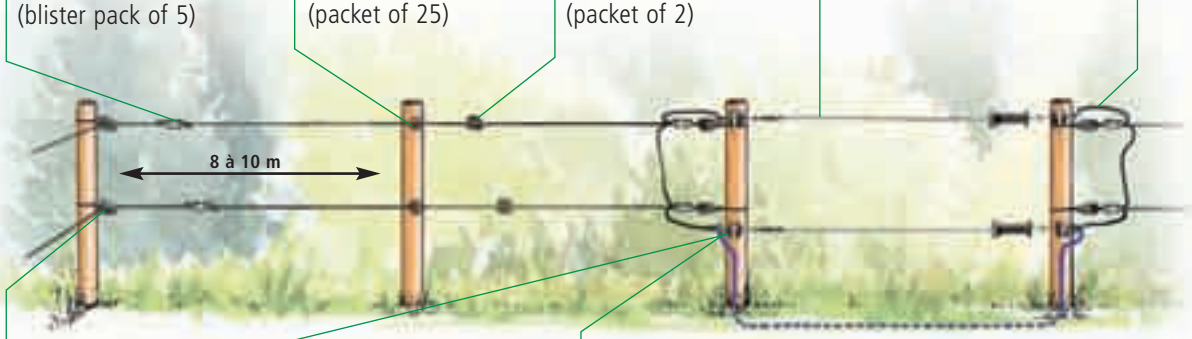
Rope Joiner
Ref. **676.402**
(blister pack of 5)

Isocorde
Ref. **651.002**
(packet of 25)

On-line Tensioner
Ref. **668.702**
(packet of 2)

Rope Gate Kit
Ref. **665.402**

Wire Output Lead
Ref. **667.402**
(blister pack of 1)



IEF
Ref. **652.302**
(packet of 10)

Isobar Super
Ref. **658.702**
(packet of 2)

Forceflex Junction
Ref. **669.102**
(blister pack of 2)

Megaboost
Ref. **638.100**
(reel 200 m)

Megarope XL
Ref. **638.700**
(reel 200m)

Subdivision System

Speedroll Geared Reel
Ref. **648.400**

Stirrup Post 165
Ref. **640.900**

Uniroll/Speedroll Support Post
Ref. **645.100**

Isopost Post 140
Ref. **640.300**

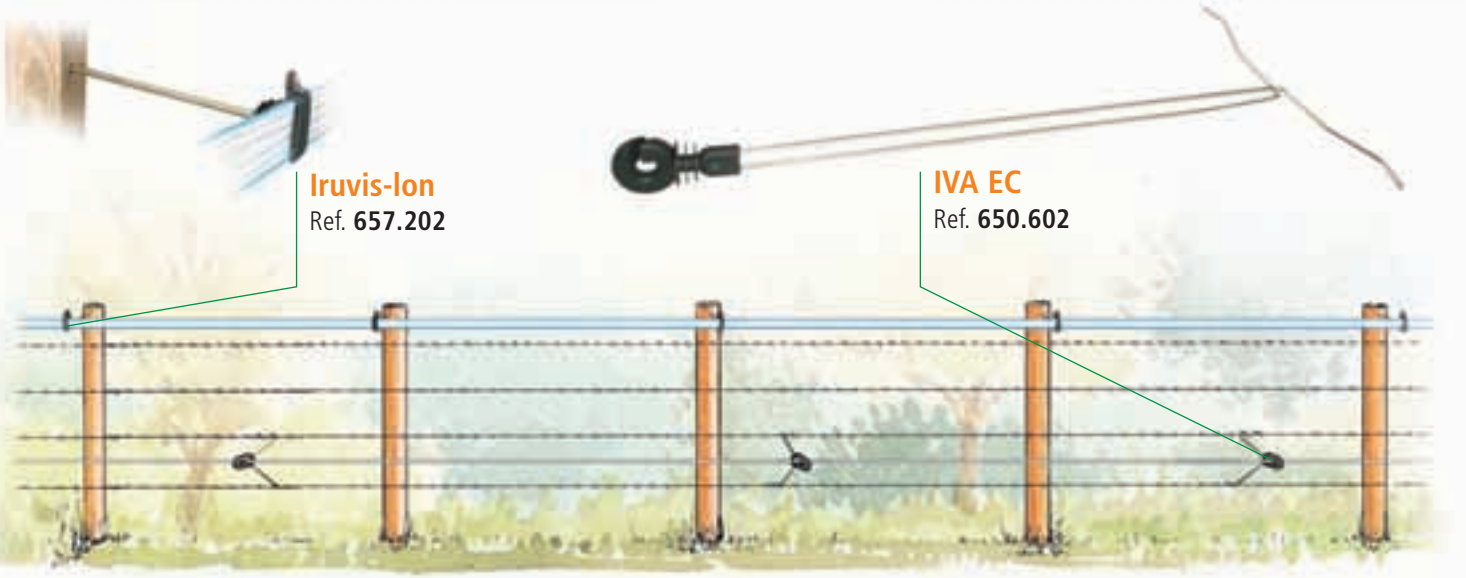
Megatape 20
Ref. **635.600**
(reeler 200 m)

Tape End with Snap Hook
Ref. **666.802**
(blister pack of 1)

Heavy Duty Gate Handle
Ref. **665.300**

Ivabloc
Ref. **655.102**
(packet of 25)

Separator System



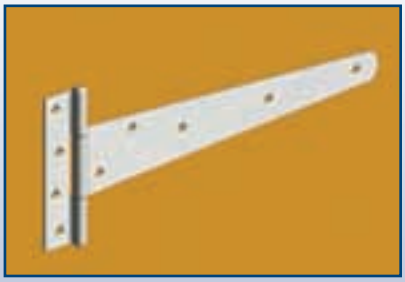
Iruvis-Ion
Ref. **657.202**

IVA EC
Ref. **650.602**

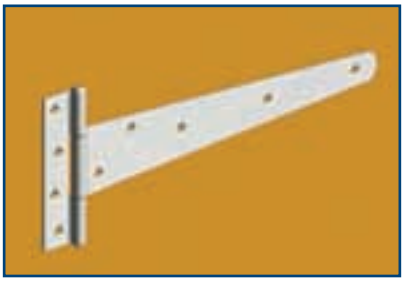
Distance between posts = 3 to 6 m.

1. Given that horses are sensitive to electricity, always use an energizer that is suitably powered. For short enclosures, do not hesitate to use the reduced power outlet every time that this is adequate.
2. A horse's vision is particularly sensitive to contrast and as a result the colour of the tape is less important for the animal than the overall aspect of the fence. In this respect, do not hesitate to reduce the width of the tape used and to increase height.
3. As far as possible, ensure that all the fence tapes are kept tightened and that they are either clamped in the insulators (IRULOCK, IRUVIS) or left free (PASSLOCK).
4. **Reminder:** electrification of barbed wired is not only strictly forbidden, but particularly dangerous for horses.

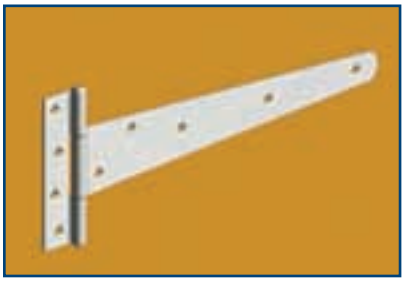
Reminder: Agrifence also provides equipment for horses and riders. Do not hesitate to ask for the catalogue from your sales agent.



Light Tee Hinge
6" Ref. **900.007**
8" Ref. **900.008**
12" Ref. **900.010**

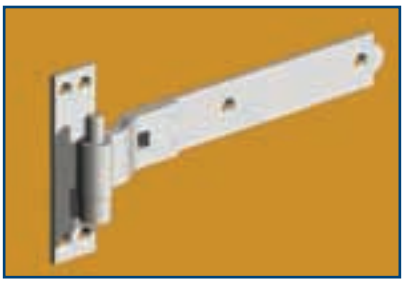


Medium Tee Hinge
12" Ref. **900.016**
15" Ref. **900.018**
18" Ref. **900.020**

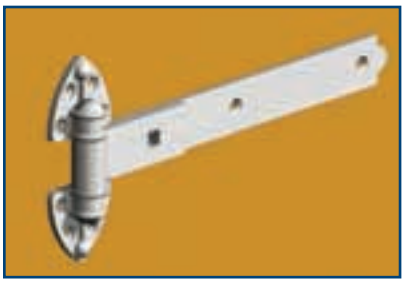


Strong Tee Hinge
12" Ref. **900.159**
18" Ref. **900.160**
24" Ref. **900.161**

Straight Bands & Hooks on plates
12" Ref. **900.021**
18" Ref. **900.024**
24" Ref. **900.027**

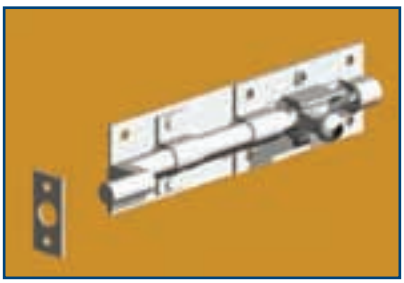


Cranked Bands & Hooks on plates
12" Ref. **900.151**
18" Ref. **900.154**
24" Ref. **900.157**

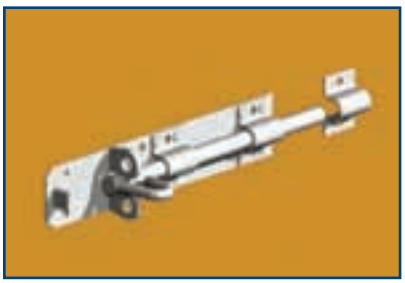


Heavy Reversible Hinges
12" Ref. **900.033**
18" Ref. **900.036**
24" Ref. **900.038**

Tower Bolt
4" Ref. **900.039**
6" Ref. **900.044**
8" Ref. **900.045**

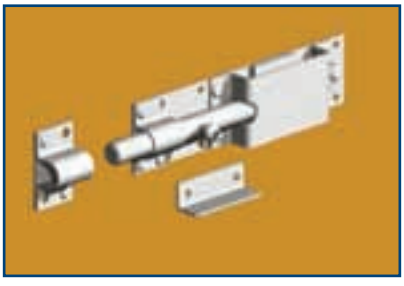


Necked Tower Bolt
6" Ref. **900.046**



Brenton Padbolt
6x1/2" Ref. **900.053**
8x1/2" Ref. **900.054**
8x5/8" Ref. **900.056**

Oval Padbolt
4" Ref. **900.048**



Autolock Animal Bolt
9" Ref. **900.058**

Spring Loaded Animal Bolt
1/2" dia Ref. **900.119**

Bolts & Latches

Chain Bolt
8" Ref. **900.059**

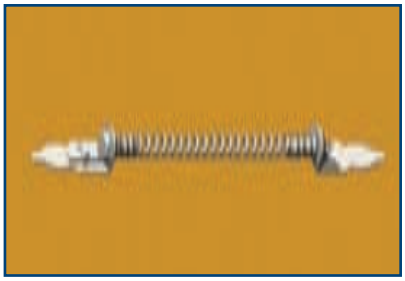
Foot Bolt
8" Ref. **900.060**

Monkey Tail Bolt
18" Ref. **900.061**

Garage Door Bolt
18" Ref. **900.065**

Turn Buttons 2"
pk2 Ref. **900.079**

Safety Gate Hook & Eye
6" Ref. **900.108**



Gate Return Spring
10" Ref. **900.078**

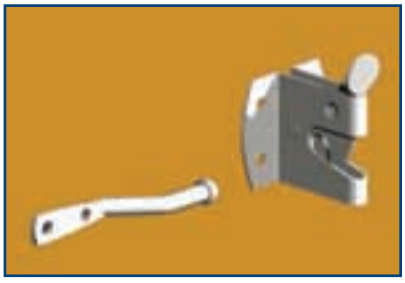
Door/Gate Stops
Ref. **900.080**

Door/Gate Handle
6" Ref. **900.102**

Suffolk Gate Latches
Light Ref. **900.070**
Heavy Ref. **900.071**

Ring Gate Catch
6" Ref. **900.074**

Slip Rail Brackets
Ref. **900.109**



Auto Gate Catch
Med Ref. **900.067**
Lge Ref. **900.068**

Cabin Hook Wire Pattern
4" Ref. **900.081**
6" Ref. **900.085**
8" Ref. **900.086**

Kick Over Stable Latch
Ref. **900.107**

Plates & Catches

Hasp & Staple - Safety Pattern
6" Ref. **900.090**

Hasp & Staple - Heavy
8" Ref. **900.093**
10" Ref. **900.094**

Hasp & Staple - Wire Pattern
6" Ref. **900.100**

Ring on Plate
2" Ref. **900.103**

Swivel Harness Snap Hook
Ref. **900.183**

Manger Ring on Eye Bolt
8" Ref. **900.173**

Staple on Plate
pk2 Ref. **900.132**

Padlock - Brass & Chrome
2" Ref. **900.105**
2 1/2" Ref. **900.106**

Padlock Protector
7½" x 2½" Black
Ref. **900.165**

Hook on Plate
pk2 Ref. **900.104**

Fieldgate Shoot Bolt
-loose Ref. **900.114**

Self Locking Gate Catch
-loose Ref. **900.112**

Clip on Plate
Ref. **900.121**

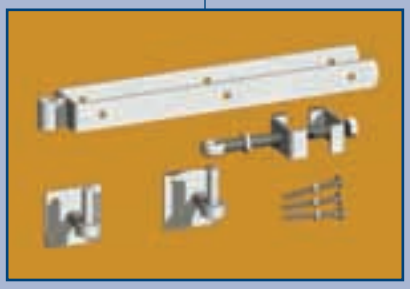
Hunting Gate Catch
-loose Ref. **900.113**

Striker for previous - loose
Straight Ref. **900.115**
Odd Leg Ref. **900.116**
Cranked Ref. **900.117**
Double Leg Ref. **900.118**

Hinge sets

Adjustable Gate Hinge Sets

18" Ref. **900.140**
24" Ref. **900.141**
(pre packed for 3" gates) (includes top band, adjustable gate eye and heel clips, hook to bolt, hook to drive and fixings)

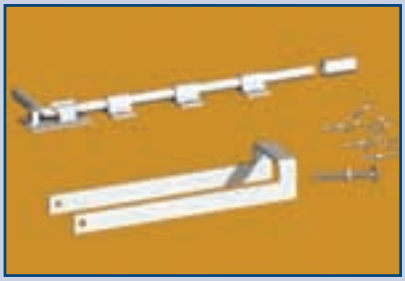


Adjustable Gate Hinge Sets

18" Ref. **900.142**
24" Ref. **900.143**
(pre packed for 3" gates) (includes top band, adjustable gate eye and heel clips, 2no hooks on 4" square plates and fixings)

Rising Hinge Set

24" Ref. **900.147**



Double Gate Fastener Set

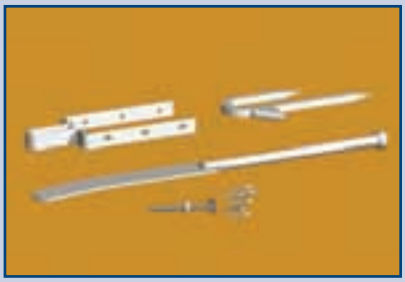
(pre-packed)
Ref. **900.166**
(includes 18" dropbolt, 14" throw-over loop and fixings)

Hook to Bolt

13" (19mm pin) - loose
Ref. **900.127**

Hook to Drive

8½" (19mm pin) - loose
Ref. **900.111**



Spring Fastener Sets

(pre-packed)
c/w Drive Catch
Ref. **900.145**
c/w Staple Catch
Ref. **900.146**
c/w Central Catch
Ref. **900.144**

Hook on 4" Plate

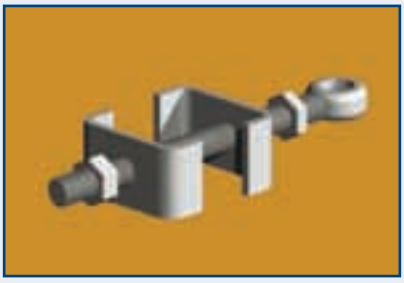
(19mm pin) - loose
Ref. **900.110**

Adjustable Hook on 4" Plate

(19mm pin) - loose
Ref. **900.120**

Adjustable Gate Eye

4x¾" - loose
Ref. **900.125**



Adjustable Bottom Gate Bracket

-loose Ref. **900.130**

PLEASE ENQUIRE IF YOU DO NOT SEE THE FITTINGS YOU REQUIRE

Lanterns

Uk47

Professional Floating Lantern in Safety Yellow

- Reflector diameter 86mm
- High performance bi-convex Beamaster lens
- Operates using one 6v dry cell lantern battery
- Bulb: 4.8v

Ref. **200.047**

Uk49

Professional Heavy Duty Floating Lantern in Safety Yellow

- Large diameter reflector 108mm.
- High performance, bi-convex Beamaster lens.
- High impact Co-polymer body.
- Weatherproof - Floats beam upright in water.
- Micro-switch operation.
- Operates using 6v dry cell lantern battery, UK251 rechargeable battery or UK300 plug-in rechargeable battery (not included).
- Bulb: 4.8v krypton.

Ref. **200.049**

Uk100

Professional Rubber Floating Lantern in Black complete with 6v Heavy Duty Battery

- Reflector diameter 86mm.
- Durable - to withstand years of use.
- Micro-switch operation.
- Operates using 1x6v lantern battery or UK300 plug-in rechargeable battery (not included).
- Bulb: 4.8v Xenon

Ref. **200.100**

Uk302

Black Professional 2-cell Waterproof Rubber Torch in Black

- Reflector diameter 60mm.
- Floats beam upright in water.
- Micro-switch operation.
- Non-corrosive polypropylene battery compartment.
- Operates using 2xD size batteries (not included)
- Bulb: 2.4v Krypton.

Ref. **200.302**

Uk48

Professional Swivel Headed Lanterns

- Lanterns available in Safety Yellow or High Visibility Orange.
- Reflector diameter 86mm.
- High Performance bi-convex Beamaster lens.
- Weatherproof.
- Micro-switch operation.
- Convenient shoulder strap.
- Operates using one 6v lantern battery.
- UK251 rechargeable battery, or UK300 plug-in rechargeable battery (not included).
- Bulb: 4.8v Krypton.

Ref. **200.048**

Uk303

Professional 3-Cell Waterproof Rubber Torch in Black

- Reflector diameter 60mm.
- Floats beam upright in water.
- Micro-switch operation.
- Non-corrosive polypropylene battery compartment.
- Operates using 2xD size batteries (not included).
- Bulb: 2.4v Krypton

Ref. **200.303**

Torches

Uk301B

Black Professional Waterproof Rubber Pocket Torch

- Easy to operate focusing twist-action on/off switch
- Operates using 2xAA batteries (not included)
- Bulb: 2.4v Krypton

Ref. **200.301**

Uk206

Headlight in Safety Orange.

- Pivoting head for beam direction with Bi-convex Beamaster optic lens.
- Complete with adjustable elasticated headband.
- Uses 2 or 4 AA size batteries (not included)
- Hands-free operation.
- Bulb: 2.4 Krypton with spare bulb facility
- Reflector diameter 60mm

Ref. **200.206**

Duracell Batteries

AA-cell. Pack of 4.
Ref. **623.002**

D-cell. Pack of 2.
Ref. **623.004**

Uk105

2AA Mini Flashlight with Xenon bulb

- AA size mini flashlight, ideal for Engineers, Contractors, Police, Fire, Paramedics.
- Weatherproof and high impact resistant, using neoprene 'O' rings to seal.
- This top quality torch has a UNIQUE push button Micro-Switch operation to focus rotate head in either direction.
- This is a superbly balanced torch with top quality engineering, that will endure many years of service.
- Spare 2.4v high performance Xenon bulb fitted inside the end cap under the compression spring 2xAA Alkaline batteries are included.
- Black pouch available for UK105 Mini Flashlight, made from heavy duty Oxford Nylon, with belt loop.

Ref. **200.105**

Uk162

2 D Cell Torch with Xenon bulb

- 2 D size torch, ideal for Engineers, Contractors, Police, Fire, Paramedics.
- Powerful beam adjusts from flood to spot simply by sliding the head of the torch up and down
- Weatherproof and high impact resistant, using neoprene 'O' rings to seal. This top quality torch has a UNIQUE Nickel plated rotary Micro-Switch built into the head - to operate rotate in either direction.
- Spare 2.4v Xenon bulb fitted inside the end cap under the compression spring.

Ref. **200.162**

Uk163

3 D Cell Torch with Xenon bulb

- 3 D size torch, ideal for Engineers, Contractors, Police, Fire, Paramedics.
- Powerful beam adjusts from flood to spot simply by sliding the head of the torch up and down.
- Weatherproof and high impact resistant, using neoprene 'O' rings to seal.
- This top quality torch has a UNIQUE Nickel plated rotary Micro-Switch built into the head - to operate rotate in either direction.
- This is a superbly balanced torch with top quality engineering, that will endure many years of use.
- Spare 3.5v Xenon bulb fitted inside the end cap under the compression spring.

Ref. **200.163**

Nightsearcher

The Hanging Lantern

The Hanging Lantern is the ideal outdoor companion, giving an all round bright light from its energy saving 7W compact fluorescent tube. It operates for up to 8 hours from a single charge. Its remote control key can be operated from a distance of 10m. Ideal for camping, night fishing, barbecues, lofts, stables etc.

- 7W fluorescent lamp equivalent to 50W tungsten light
- Rechargeable
- Tough ABS body
- Remote control included
- 360° degree illumination
- Weatherproof
- Mains and vehicle charger included
- Recharges in approx 8hrs
- 6V 4A/h lead acid battery
- Battery charging LED indicator

Ref. **200.345**

Nightsearcher

The Endurance

The Endurance is Nightsearchers best selling compact rechargeable headlamp. Its powerful krypton bulb produces a 400m spot beam and operates for 6 hours per charge. It is lightweight and is moulded in a tough shock resistant polyethylene plastic casing. It has a low battery warning indicator, to show when the battery is getting low and will automatically switch off several minutes later to protect the life of the battery. It can be used in all weather conditions.

- 4.5W krypton bulb
- Operates for 6hrs per charge
- Supplied with mains and vehicle 12V/24V charger
- Detachable shoulder strap
- Spare bulb included
- Battery charging indicator
- Low battery warning indicator

Ref. **200.350**

Uk300

Plug-in rechargeable Lantern battery

Why waste money on disposable batteries?

These unique, and revolutionary 2000mAh Ni-MH and NiCd batteries are simple and easy to use.

They Can be charged 500 times saving you up to £2000 if you currently use standard disposable lantern batteries, with obvious savings also on the environment.

No more cables, no seperate chargers, simply plug in and charge from any domestic socket.

This powerful rechargeable battery will fit any lantern torch or flashlight that operates using a standard disposable 6 volt lantern battery, and weighs only 415 grams.

Ref. **200.300**

Uk253

12/24V Vehicle Charger

- Plugs directly into any car or commercial vehicle cigarette lighter socket.
- LED to confirm charging

Ref. **200.253**

Uk251

High capacity Lantern battery

- Can be used as a direct replacement for a 6v dry cell lantern battery

Ref. **200.251**

Uk252

Mains Charger

- Simple to use plugs directly into any conventional domestic socket

Ref. **200.252**

ORDER FOR AGRIFENCE PRODUCTS

(Copy as required)

agrifence uk

Retailer: _____ Tel: _____

Ref	Description	Quant	Price		Sub Total	
Please return this order to your retailer who will be pleased to supply your requirements from stock or order the goods on your behalf from Agrifence UK. THANK YOU FOR YOUR ORDER			GRAND TOTAL			

Customer Name: _____

Address: _____

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Tel: _____ Date: _____

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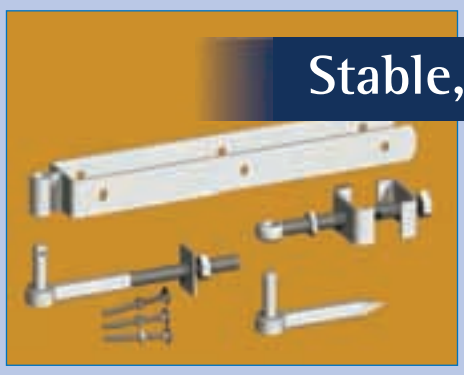
Not just a list of products, but a comprehensive guide to the use of electric fencing with hints and tips right through from choice of energiser, conductor and insulator etc, to installation suggestions. "An essential tool for professional or hobby user alike".



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A selection of well made professional torches and lanterns designed for rugged outdoor and country use.

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